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PART I.

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CONSULTING BOTANIST TO THE FOREST DEPARTMENT OF NEW SOUTH WALES;
CORRESPONDING MEMBER OF THE PHARMACEUTICAL SOCIETY OF GREAT
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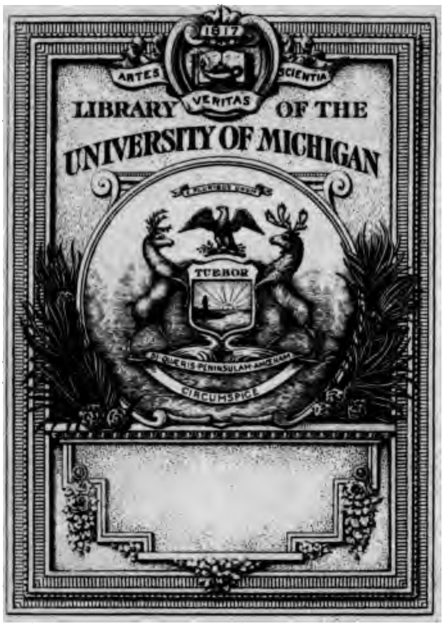

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PREFACE.

SO much attention has been directed, particularly during the last few years, to investigations and notes concerning the properties and uses of Australian plants, or of products obtained from them, that the literature of the subject has attained very large dimensions. Such records concerning our native plants are to be found in books of travel, in exhibition literature, pamphlets, proceedings of learned societies, professional journals, newspapers, &c., and often with the most unlikely context. It has been my task to attempt to render this scattered information convenient for reference. It has long been known how difficult it is for an inquirer to find out what has been written on a particular subject, and in order to answer visitors and correspondents, and to carry on research work, I have for years past found it necessary to systematically chronicle references, and I have consulted the originals wherever I could get access to them.

The compilation of this Bibliography has brought home to me the very serious fact that in the libraries of Sydney serial pharmaceutical literature is all but unrepresented. It behoves the Pharmaceutical Society of this Colony to put an end to such a state of things, for, at present, if one desires a reference to the leading pharmaceutical serials of America, France, Germany, or Austria, one has to send to London or Melbourne for it. The study of our native *materia medica* will be hindered until such time as the literature to which I have referred is accessible to the people of this Colony.

From this work I have omitted all papers and works which consist of "pure" Botany. A bibliography of this division of the subject is badly wanted, and I trust that it will be shortly undertaken.

I have classified the papers and works into groups according to subjects, as I find that a man is, as a rule, interested in one subject mainly, *e.g.*, timber, eucalyptus oil, and it is a convenience to him not to have to wade through a number of references to other subjects. The Economic Botany collections in the Technological Museum are arranged in such groups, to the great comfort, often expressed, of students. My work on the "Useful Native Plants of Australia" also groups the products in this way, and such classification has met with the almost unanimous approval of a large number of reviewers. In each group authors' names have been alphabetically arranged. This possesses advantages, although a disadvantage is that the references to any particular subject, say *Duboisia*, do not run consecutively. But the line had to be drawn somewhere. If the Duboisia references had been placed together, the *Euphorbia pilulifera*, the *Alstonia constricta*, and others would have demanded similar treatment; an exception has only been made in regard to the genus Eucalyptus.

It is not always possible to classify the economic botany portion of a publication under one single head, such as "Foods," "Timbers," &c. In such instances I have made one prefatory classification, entitled "General," and have made cross references wherever necessary. At first it may seem singular to find the works of Eyre, Grey, Leichhardt, and others, only under "Foods," but, if the matter be looked into, it will be found that these explorers, in common with most others who have performed similar work for Australia, rarely ever allude to the indigenous vegetation except from an alimentary point of view.

In the present bibliography references should be facilitated by means of the index. I hope that it will be useful to the scientific investigator in showing what has been done, and at the same time what has *not* been done in regard to our plant products, and thus suggesting new lines of research.

The treatment of an individual reference is, in the main, similar to that adopted in Etheridge's bibliographical work on Australian aborigines. (Memoirs of the Geological Survey of N.S.W.; Palæontology, No. 8).

In addition to the references given, the following serial publications will be found to contain notes (more or less frequent and voluminous), on Australian economic botany:—*The Australasian Medical Gazette*, *The Pharmaceutical Journal of Australasia*, *The New South Wales Educational Gazette*, *The Sydney Mail*, *The Town and Country Journal*, *The Horticulturist*, all of Sydney; *The Chemist and Druggist of Australasia*, *The Australian Journal of Pharmacy*, *The Australasian*, *The Leader*, *The Victorian*, *Naturalist*, all of Melbourne; *The Journal of the Bureau of Agriculture of South Australia*, *The Garden and Field*, *The Weekly Observer*, all of Adelaide; *The Queenslander*, of Brisbane, *The Capricornian*, of Rockhampton, *The Townsville Bulletin*, all of Queensland; *The Western Mail*, of Perth, Western Australia; *The Pharmaceutical Journal*, *The Chemist and Druggist*, *The Lancet*, *The British Medical Journal*, *The Medical Times and Gazette*, *The Practitioner*, all of London; *The Bulletin of Pharmacy*, of Detroit; and *The Therapeutic Gazette*, of Philadelphia, U.S.A.

J. H. M.

Technological Museum,
Sydney, May, 1892.

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A Bibliography of Australian Economic Botany.

I.—The following papers on the chemistry of some of our Native Plants are of scientific rather than economic interest, and are included for completeness' sake:—

CHURCH (A. H.)—**On the occurrence of Aluminium in certain vascular Cryptogams.** *Proc. R. S.* (*Lond.*), *XLIV*, 121; *Abstr. in Nature*, 7*th June*, 1888.

It refers to *Alsóphila australis* and *Cyathea medullaris*, amongst others.

DIXON (W. A.)—**On the inorganic constituents of some Epiphytic ferns.** *Proc. R. S., N.S.W.*, *XV*, 175.

The ferns are *Platycerium grande*, *P. alcicorne*, and *Asplenium nidus*.

On the ashes of some Epiphytic Orchids. *Proc. R. S., N.S.W.*, 1882, 175.

The species referred to are *Sturmia* (*Lippia*) *reflexa*, *Dendrobium Hillii*, *D. Kingianum*, and *D. linguæforme*.

RENNIE (E. H.)—**On the occurrence of Æsculin in Bursaria spinosa.** *Proc. Aust. Assoc. Adv. Sci.*, *II*, 399.

ROCHLEDER (F.)—**Die Blätter von Epacris.** *Journ. prak. Chem.*, *LXXXIV*, 441. (Mittheilung aus dem Labatorium zu Prag. IV, Epacris).

Species not stated. The leaves were obtained by the "Novara."

Notiz über die Blätter von Epacris. *Journ. prak. Chem.*, *XCIII*, 208. Aus der 53 Bde. (p. 519), der *Sitzber. der K. K. Akad. der Wiss. zu Wien.* See also Jahresb., 1861, 773; 1866, 694. *Watts' Dict.*, VI, 580.

II.—General.

(See "Exhibition Literature," p. 8.)

BACKHOUSE (J.)—**A Narrative of a visit to the Australian Colonies.** 8*vo.*, pp. 560, *CXLIV*, *London*, 1843.

Contains numerous scattered notes; very valuable. Appendix D is entitled "Remarks on the Indigenous Vegetable productions of Tasmania, available as food for man. By James Backhouse; amended by Ronald C. Gunn." The foods are arranged in Natural Orders and fully described. It contains a reference to a paper in the Van Diemen's Annual for 1834, entitled "On the roots and other indigenous esculents of the Colony."

BAILEY (F. M.)—**A Synopsis of the Queensland Flora.** *8vo., Govt. Printer, Brisbane,* 1883.

3rd Supplement, pp. 135, 1890, (includes 1st Addendum to 3rd Suppt., 2 pp.)

2nd Addendum to 3rd Suppt. (12 pp., paged 105–116).

Occasional Papers on the Queensland Flora. *No.* 1, *May,* 1886.

Bulletins of the Dept. of Agriculture, Brisbane. Botany. *Govt. Printer, Brisbane,* commencing 1890.

A general account of the Flora of Tropical Queensland. *Proc. Linn. Soc., N.S.W., II,* 276.

Contains many notes on the uses and properties of plants.

Official Guide to the Museum of Economic Botany, Department of Agriculture, Brisbane. *Govt. Printer, Brisbane,* 1891.

Report of the Government Scientific Expedition to the Bellenden-Ker Range, upon the Flora and Fauna of that part of the Colony. *Govt. Printer, Brisbane,* 1889.

Mr. Bailey's Report contains numerous economic botany notes.

See also Boyd (A. J.)

BARTON (G. B.)—**History of New South Wales, from the Records.** *Vol. I. Govt. Printer, Sydney,* 1889.

Contains numerous scattered notes, chiefly on foods and timber.

BENNETT (G.)—**Wanderings in New South Wales, Batavia, Pedir Coast, Singapore, and China; being the Journal of a Naturalist in those Countries during 1832, 1833, 1834.** 2 *vols., 8vo., London,* 1834.

Vol. I contains (p. 1–329) numerous Australian economic botany notes, *e.g.*, p. 62, grass-tree gum; p. 319, manna.

Gatherings of a Naturalist in Australasia: being Observations principally on the Animal and Vegetable Products of New South Wales, &c. pp. xii–456, *London,* 1860.

Contains many economic botany notes, viz., *E. citriodora,* p. 265; *Adansonia Gregorii* (bottle-tree), p. 292 (with fig.); *Laportea gigas* (nettle-tree), p. 297, and miscellaneous notes at p. 282, *et seq.*; p. 322, *et seq.*; p. 334, *et seq.*; p. 357, *et seq.*

BOYD (A. J.)—**Queensland.** *Queensland Emigration Office, London,* 1882.

Chap. xviii ("Flora") contains some notes by Mr. F. M. Bailey.

BROWN (J. E.)—**A practical Treatise on Tree-culture in South Australia.** *Govt. Printer, Adelaide, 2nd Ed.,* 1881.

P. 53, Wattle-growing; p. 79, Notes on trees, many of them Australian.

The Forest Flora of South Australia. *Demy, Govt. Printer, Adelaide.*

Coloured plates, with descriptive letterpress. 9 parts published, of 5 plates each.

BROWN (J. E.) and MAIDEN (J. H.)—**The Forest Flora of New South Wales.** *Govt. Printer, Sydney.*

In parts, with 5 coloured plates each. Demy. Prominence is given to the economic uses of the forest vegetation.

CUNNINGHAM (A.)—[*See* FRASER (C.)]

CUNNINGHAM (P.)—**Two Years in New South Wales: Comprising sketches of the actual state of society in that Colony; of its peculiar advantages to emigrants; of its topography, natural history, &c., &c.** *2nd Edn., 2 vols., 8vo., London,* 1827.

Miscellaneous notes at i, 126. At p. 186 "Colonial forest timbers and tanning barks. Gum kino, gum arabic, and manna trees. Shrinking of colonial timbers." At p. 206 "Native and imported fruits and vegetables." P. 330 "White ants and colonial timbers."

DIXON (W. A.)—**Abstracts of papers from other journals on the chemistry of Australian products (up to 1882).** *Proc. R. S., N.S.W., XVII,* 191.

DON (G.)—**A general history of the Dichlamydeous Plants.** *In four volumes, 4to., London, J. G. and F. Rivington,* 1831–8.

Contains many notes on Australian economic botany.

FRASER (C.)—**Remarks on the Botany, &c., of the banks of Swan River, Isle of Buache, Baie Geographe, and Cape Naturaliste.** *Hooker's Botanical Miscellany, I,* 221.

FRASER (C.) and CUNNINGHAM (A.)—**Journal of a two months' residence on the banks of the rivers Brisbane and Logan, on the east coast of New Holland.** *Hooker's Botanical Miscellany, I,* 237.

Contains numerous notes, and also plates of *Castanospermum australe, Oxleya xanthoxyla* (*Flindersia Oxleyana*), *&c.*

HAMILTON (A. G.)—**A list of the indigenous plants of the Mudgee district.** *Proc. Linn. Soc., N.S.W.* [2], *II,* 259.

With notes on their uses.

HIERN (W. P.)—**A monograph of Ebenaceæ.** *Trans. Cambr. Philos. Soc., XII,* 1 (1873).

A few notes on the uses of Australian species.

HILL (W.)—**Collection of Economic and other Plants.**

Printed for distribution at the Melbourne International Exhibition of 1880.

Includes notices of some useful Australian Plants.

HODGKINSON (C.)—**Australia, from Port Macquarie to Moreton Bay; with Descriptions of the Natives, their Manners and Customs; the Geology, Natural productions, fertility, and resources of that region, &c.** *8vo., London,* 1845.

A few economic botany notes scattered throughout the earlier pages.

IVEY (W. E.)—**Report upon the Victoria, Dandenong, and Bullarook State Forests.** *Second Ann. Rep. of Sec. for Agric., Melbourne,* 1874.

General observations.

KEW **(Reports on the Progress and Condition of the Royal Gardens at).** Published annually. From 1862 to 1882 these Reports contained a mass of valuable information on economic botany; the most valuable of this is now published in the *Kew Bulletin* (monthly).

An index to the Kew Reports was published as Appendix III to *Kew Bulletin*, 1890, and from this I compile the following references to useful Australian plants:—

Acacia melanoxylon in India, 1875; 7.
Atriplex nummularia in India, 1882; 21.
Duboisia Hopwoodi, 1877; 42.
„ *myoporoides*, 1877; 42.
Eucalyptus in Cyprus, 1878; 34.
„ in India, 1879; 16.
„ in West Indies, 1879; 16.
„ *acmenoides*, 1881; 12.
„ *Baileyana* in West Tropical Africa, 1881; 12.
„ „ in Straits Settlements, 1879; 16.
„ *calophylla* in Mauritius, 1878; 36.
„ *citriodora* in India, 1882; 20.
„ „ in West Indies, 1882; 21.
„ „ in Zanibar, 1879; 16.
„ *cornuta* in India, 1881; 12.
„ *globulus*, 1873; 5. 1874; 5.
„ „ in Assam, 1879; 16.
„ „ in India, 1875; 7, 1876; 23.
„ „ in West Africa, 1873; 5. 1881; 12.
„ „ in West Indies, 1877; 30.
„ *latifolia* in India, 1881; 12.
„ *melanophloia* in India, 1878; 36.
„ *resinifera*, 1876; 23. 1877; 30. 1879; 16. 1881; 12.
„ *rostrata* in Assam, 1879; 16.
„ „ in India, 1876; 23. 1879; 16. 1881; 12.
„ *saligna* in India, 1877; 30.
„ *siderophloia* in Straits Settlements, 1879; 16.
Excœcaria Agallocha, 1877; 42. 1878; 27.
Grevillea robusta in West Indies, 1879; 16.
Lepidosperma gladiatum for paper-making. 1876; 25.

KEW BULLETIN, 1887, XVIII.—**Notes on Articles contributed to the Museums of the Royal Gardens, Kew, from the Colonial and Indian Exhibition, 1886.**

Chiefly from Victoria and Western Australia.

KING (P.P.)—**Narrative of a survey of the Intertropical and Western Coasts of Australia. Performed between the years 1818 and 1822. With an appendix containing various subjects relating to Hydrography and Natural History.** 2 *vols.*, *London*, 1827.

Admiralty instructions as to search for timber suitable for ship-building purposes. (*Introd. XXXII.*) List of some Tasmanian trees by Allan Cunningham, i, 158; and of Tasmanian aboriginal names of plants, i, 162; *Pandanus* fruits for food, i, 374; edible plants, King George's Sound (*Apium* and *Atriplex*), ii, 156.

MAIDEN (J. H.)—**The useful Native Plants of Australia (including Tasmania).** *Sydney and London*, 1889. 8*vo*., pp. xii. 696.

Separate chapters on human foods and food-adjuncts, forage plants, drugs, gums, resins and kinos, oils, perfumes, dyes, tans, timbers, fibres, miscellaneous.

Bibliography of the Chemistry of indigenous Australian Vegetable Products. *Aust. Ass. Adv. Science*, *I*, 183.

Notes on Australian Economic Botany. Part I, *Proc. Linn. Soc., N.S.W.* [2], *V*, 273. Part II, *Ibid*, [2], *VI*, 133.

Foods, drugs, timbers, &c.

MUELLER (F. v.)—**Fragmenta Phytographiæ Australiæ.** *Vols. I–XI. Government Printer, Melbourne.*

In Latin. Contains scattered notes on economic botany.

First General Report on the Vegetation of the Colony of Victoria, 1853. *Phytologist*, *V* (1854), p. 165.

Australian vegetation, indigenous or introduced, considered especially in its bearings on the occupation of the territory, and with a view of unfolding its resources. *Journ. Bot.*, *V*, 160 *and* 200.

Full of valuable notes on Australian economic botany.

On the Vegetation of the Colony of Victoria. *Hooker's London Journ. Bot.*, *VI*, 123 (1854).

Notes made during the recent expedition across the northern portion of Australia under the command of Mr. Surveyor Gregory. *Hooker's Lond. Journ. Bot.*, *IX*, 165 (1857).

Report on the Plants collected during Mr. Babbage's expedition. *Quart. Journ. Pharm. Soc., Vict.*, *II*, 43 (1859).

Mr. Babbage explored part of what is now known as the Northern Territory.

Indigenous Vegetable Productions. *Trans. Phil. Inst., Vict.*, *IV*. (1859), *Suppl.*, p. 21.

Notes on Victorian products arranged under the heads of Fruits; Native Vegetables; Gums, Resins, and Dyes; Fibres; Medicinal Plants.

Indigenous Vegetable Productions of the Colony of Victoria. *The Technologist*, *II*, 120.

Brief notes on gums, resins, fibres, drugs, and perfumes.

Select Extra-tropical Plants readily eligible for industrial culture or naturalisation. *N.S.W. Edition*, *Govt. Printer*, *Sydney*, 1881. *Victorian Edition* (*the seventh in all*), *Govt. Printer*, *Melbourne*, 1888.

Valuable notes on many native plants.

Australian Vegetation, indigenous or introduced. *Intercolonial Exhibition* (*Melbourne*) *Essays*, 1866–7, *No.* 5.

The Plants indigenous to the Colony of Victoria. *Vol. I*, *Thalamifloræ. Govt. Printer, Melbourne*, 1860–2. The second volume (although not marked Vol. II), is entitled *Lithograms. Govt. Printer, Melbourne*, 1864–5.

Vol. I contains numerous notes on economic botany in addition to plates. Vol. II consists of plates only.

Eucalyptographia. A descriptive atlas of the Eucalypts of Australia and the adjoining islands. *Decades I–X.* 4*to.* *Govt. Printer, Melbourne,* 1879–84.

Contains 100 plates, each figuring a distinct species. It is full of notes on the economic botany of the Eucalypts, of which it forms the standard work.

MUELLER (F. v.)—[*See* WITTSTEIN (G. C.)]

MUELLER (F. v.)—[*See* TIMBERS, p. 50.]

MUELLER (F. v.) and NEWBERY (J. C.)—[*See* TIMBERS, p. 50.]

O'SHANESY (P. A.)—**The Botany of the Springsure district (Queensland).** *Proc. Linn. Soc., N.S.W., VI,* 730.

Contains a few economic notes.

REDFORD (A.)—**Australian Products in the London International Exhibition of 1862.** *Pharm. Journ.* [2], *IV,* 446.

A brief sketch of products chiefly from Victoria. Timbers, essential oils, and resins are mainly referred to.

RENNIE (E. H.)—**Presidential Address, Section B. Australian Assoc. for Adv. of Science, Melbourne Meeting, 1890.** *Proc., II,* 55.

Several notes on the chemistry of Australian native products.

SMYTH (R. B.)—**The Aborigines of Victoria, with notes relating to the habits of natives of other parts of Australia and Tasmania.** 2 *vols.* 4*to.* *Govt. Printer, Melbourne,* 1878.

I, 208.—Vegetable foods, narcotics, &c. This volume also contains notes on the use of timbers for shields, clubs, &c., and procuring fire, &c., &c.

II, 302, 392.—Vegetable foods. This volume also contains many useful scattered notes.

STOKES (J. L.)—**Discoveries in Australia; with an account of the Coasts and Rivers explored and surveyed during the voyage of H.M.S. "Beagle," in the Years 1837–38–39–40–41–42–43. By command of the Lords Commissioners of the Admiralty. Also a narrative of Captain Owen Stanley's visits to the Islands of the Arafura Sea.** 2 *vols.* 8*vo.* *London,* 1846.

Wild oats, i, 126; manna, i, 286; gouty-stem tree (*Adansonia*) with fig., ii, 116; list of some useful plants of Western Australia, with vernacular names, some botanical ones, and other notes, ii, 132; Bynoe's observations on manna and cicadas, ii, 482.

TENISON-WOODS (J. E.)—**Botanical Notes on Queensland.** No. I. *Proc. Linn. Soc., N.S.W.* No. I, vii, 76. No. II.—The Tropics, p. 136. No. III, p. 305. No. IV.—Myrtaceæ, p. 331. No. V.—The Forests or Scrubs, p. 565.

Contain numerous economic notes.

The Tropical Agriculturist, Colombo, Ceylon. *Monthly from 1st June,* 1881.

Numerous notes on Australian products, particularly in regard to those from plants introduced into India and Ceylon.

Turner (F.)—**Miscellaneous notes in the "Agricultural Gazette."** *Govt. Printer, Sydney.*

Victorian Royal Commission on Vegetable Products (1885–1891). *Govt. Printer, Melbourne.*

Progress Reports have been already issued, and contain much valuable information in regard to the utilisation of our indigenous plant products.

Wilhelmi (C.)—**Manners and Customs of the Australian Natives, in particular of the Port Lincoln district (South Australia).** *Trans. R. S. Vict., Vol. V,* 1860–64, p. 164.

Foods, fibres, woods.

Wittstein (G. C.)—**Anleitung zur chemischen Analyse von Pflanzentheilen auf ihre organischen Bestandtheile.** *C. H. Beck, Noerdlingen.*

Following is a translation of the above:—

Mueller (F. v.)—**The Organic Constituents of Plants and Vegetable substances and their chemical analysis.** *8vo. Melbourne,* 1878.

P. 6, *Adansonia*; p. 20, *Atherospermin*; p. 21, *Atherosperma* tannic acid; p. 80, *Eucalyptus* constituents; p. 143, oil of *Atherosperma moschata*; p. 148, oil of *Eucalyptus*; p. 152, oil of *Melaleuca ericifolia*; p. 156, oil of *Pittosporum undulatum*; p. 156, oil of *Prostanthera*; p. 160, oil of *Zieria Smithii*; p. 175, *Pittosporin*; p. 230, *Glycyphyllin*; p. 330, *Alstonia*; p. 331, *Duboisin.*

Woolls (W.)—**Lectures on the Vegetable Kingdom, with special reference to the Flora of Australia.** *8vo.,* pp. 227. *C. E. Fuller, Sydney,* 1879.

The following contain notes on economic botany:—

Botany of the Castlereagh district, p. 61; Wonders of Australian Vegetation, p. 87; Notes on Eucalyptus, p. 116; The Vegetable Kingdom, p. 156.

The Plants of New South Wales. *8vo.* pp. 121. *Govt. Printer, Sydney,* 1885.

Contains numerous notes on economic botany.

A Contribution to the Flora of Australia. *8vo.,* pp. 255. *F. White, Sydney,* 1867.

The following contain notes on economic botany:—Botany of Parramatta District, p. 1; Indigenous vegetables, p. 24; Woods of the Parramatta District, p. 88; Medicinal plants of the Parramatta District, p. 94; Botany of Berrima and Mittagong Range, p. 101; Plants from the Dawson and Darling Downs, p. 128; Kurrajong and Tomah, p. 173; Botany of Ash Island, p. 184; Plants on the Darling, p. 192; the Genus Eucalyptus. p. 223.

III.—Exhibition Literature.

(Arranged in Chronological order.)

ONLY those catalogues, &c., have been quoted which contain really valuable information in regard to our vegetable products.

EXHIBITION OF THE WORKS OF INDUSTRY OF ALL NATIONS (LONDON) 1851.—**Reports of the Juries.** 4 *vols., large folio. Spicer Bros., London,* 1852.

P. 182 and 213, gums and resins; p. 265, timbers, notes, and tests (in tabular form); p. 315, Western Australian timbers; p. 316, Tasmanian timbers.

Official Catalogue. 3 *vols., large folio.*

P. 988, New South Wales catalogue; p. 992, Van Diemen's Land (Tasmanian) Catalogue. The Tasmanian Catalogue in particular contains useful notes.

PARIS EXHIBITION, 1855.—**Catalogue of the Natural and Industrial Products of New South Wales.** *Sydney. Reading and Wellbank,* 1854.

P. 16, Specimens of Woods indigenous to the Southern Districts; p. 33, Indigenous Woods of the Northern Districts; p. 71, Miscellaneous Vegetable Products.

VICTORIAN EXHIBITION, MELBOURNE, 1861.—**Report on Class III, Indigenous Vegetable Substances,** pp. 61. *Govt. Printer, Melbourne,* 1862.

The subject is dealt with under the following heads:—Timbers, Timber as fuel, Potassa, Destructive distillation, Barks, Fibrous materials, Manna, Essential Oils, Resins, Gums, and Gum-resins.

LONDON INTERNATIONAL EXHIBITION, 1862.—**Reports of the Juries.** *London: Printed for the Society of Arts by William Clowes and Sons,* 1863.

Class IV., Section C., p. 35. Australian timbers, with valuable notes.

Catalogue of the Natural and Industrial Products of New South Wales. *4to. W. Clowes and Sons, London.*

P. 17, Woods Indigenous to the Southern Districts of the Colony; p. 33, Extract from Capt. Fowke's Tables (Timber Tests; p. 37, Vegetable Fibres, by H. Lardner (large-leaved nettle, brown and green kurrajong); together with scattered notes.

Catalogue of the Natural and Industrial Products of New South Wales. *8vo. Reading and Wellbank, Sydney,* 1861.

P. 15, Specimens of Woods Indigenous to the Southern Districts; p. 44, Woods from the Northern Districts of the Colony; p. 68, Vegetable Fibres, by H. Lardner.

Catalogue of the Natural and Industrial Products of Queensland. *8vo.*, pp. 48. *London: Petter and Galpin,* 1862.

P. 15, Catalogue of Timbers.

The Products and Resources of Tasmania, by G. Whiting. 8*vo.*, pp. 37, "*Daily Advertiser Steam Press,*" *Hobart.*

P. 11, The Tasmanian Timber and Whaling Trophy (Notes on Timbers); p. 28, Notes on the Vegetable Products of Tasmania, by William Archer, F.L.S.

DUBLIN INTERNATIONAL EXHIBITION, 1865.—**The Illustrated Record and Descriptive Catalogue.** *London: E. and F. Spon,* 1866.

P. 372, Essential Oils (Pierce Boardman); p. 373, Essential Oils (J. Bosisto); p. 373, Gums, Resins, Kinos, and Fossil Resin; all of Victoria.

NEW ZEALAND EXHIBITION, 1865.—**Reports and Awards of the Jurors, and Appendix.** *Dunedin: Mills, Dick, & Co.,* 1866.

P. 459. Appendix C. Results of a series of experiments on the strength of New Zealand and other colonial woods (New South Wales Timbers at p. 485). [*See* "BALFOUR," p. 46.]

INTERCOLONIAL EXHIBITION OF AUSTRALASIA, MELBOURNE, 1866.—**Official Record containing Introduction, Catalogues, Reports and Awards of the Jurors, and Essays and Statistics on the Social and economic Resources of the Australasian Colonies.**

Timbers (Miscellaneous Australian), p. 214; Victorian Timbers, p. 221; New South Wales Timbers, p. 226; Queensland Timbers, p. 229; Notes on the Geographical Distribution of Queensland Timbers, p. 231; Paper Materials, p. 243; Senna, p. 251; Gastrolobium, p. 251; Barks, p. 254; Tanners' Material, p. 255; Vegetables used for Food by the Aborigines (Thozet), p. 258; Dyes, p. 263; Essential Oils, p. 317.

PARIS UNIVERSAL EXHIBITION, 1867—**Catalogue of the Natural and Industrial Products of New South Wales.** *Sydney: Govt. Printer,* 1867.

The London 1862 Catalogues of Northern and Southern Timbers are reprinted as an appendix.

Catalogue of the Natural and Industrial Products of Queensland. *London: Edward Stanford,* 1867.

P. 17, Queensland Timbers.

Rapports du Jury International, Publiés Sous la Direction de M. Michel Chevalier. *Paris: Imp. Dupont,* 1868. 13 *vols.*, 8*vo.*

This work contains scattered notes (some of them useful) on Australian vegetable products.

INTERCOLONIAL EXHIBITION, SYDNEY, 1870—**The Industrial Progress of New South Wales.** 8*vo.*, pp. 792, *Govt. Printer, Sydney,* 1871.

P. 633, on the woods of New South Wales.

CENTENNIAL EXHIBITION, PHILADELPHIA, 1876—**Official Catalogue of the Natural and Industrial Products of New South Wales.** *Sydney: Govt. Printer,* 1876.

P. 59, Woods Indigenous to the Southern Districts of the Colony; p. 70, Woods Indigenous to the Northern Districts of the Colony. (Both lists based on those of the Paris Exh. of 1855.)

SYDNEY INTERNATIONAL EXHIBITION, 1879—**Official Record.** *Sydney: Govt. Printer*, 1881. *Royal 8vo.*, 1,154 pp.

P. 719, Descriptive list of timbers exhibited by the Department of Mines; p. 741, Descriptive list of timbers exhibited by the Botanic Gardens, Brisbane; p. 764, Descriptive list of timbers by Botanic Gardens, Melbourne.

NOTE.—The Official Catalogue of Exhibits in the New South Wales Court (*Sydney: Govt. Printer*, 1879) is a mere list of exhibitors and exhibits.

Catalogue of the Queensland Court. *Brisbane*, 1879.

P. 39, Queensland Timbers; p. 72, Grasses and Fodder Plants.

MELBOURNE INTERNATIONAL EXHIBITION, 1880.—**Catalogue of the Queensland Court.** *Printed by J. H. Reynolds, Brisbane.*

P. 19, Catalogue of Queensland Timbers; p. 55, Queensland Grasses.

New South Wales Catalogue. *Sydney: Govt. Printer*, 1880.

Appendix B, p. 93, a Catalogue of Indigenous Timbers.

Catalogue of the Queensland Court. *Brisbane*, 1880.

P. 19, Queensland Timbers; p. 55, Grasses and Fodder Plants.

AMSTERDAM EXHIBITION, 1883.—**New South Wales: Its Progress and Resources, and Official Catalogue of Exhibits from the Colony.** *Govt. Printer, Sydney*, 1883.

A few scattered notes.

INTERNATIONAL EXHIBITION, CALCUTTA, 1884.—**New South Wales: Official Catalogue of Exhibits from the Colony.** *Govt. Printer, Sydney*, 1884.

P. 77, Descriptive Catalogue of Timbers, prepared by the Forest Branch for the Commissioners.

COLONIAL AND INDIAN EXHIBITION, 1886.—**New South Wales: Official Catalogue of Exhibits from the Colony.** *Sydney: Govt. Printer.*

Pp. 172, 174, 178, 183, Timbers.

Reports on the Colonial Sections of the Exhibition. *London: William Clowes and Sons*, 1887.

P. 283, Gums, Resins, and Analogous substances; p. 370, Miscellaneous Fibres; p. 415, Timber (T. Laslett); p. 462, Timber (Allen Ransome).

Catalogue of Exhibits in the Victorian Court. *Melbourne: Govt. Printer.*

P. 61, Descriptive catalogue of Victorian Timbers; p. 87, List of Fibres (includes some Australian ones).

For the **Queensland Timber Catalogue** [*See* "BAILEY," p. 46.]

ADELAIDE JUBILEE INTERNATIONAL EXHIBITION, 1887.—**New South Wales: Official Catalogue of Exhibits from the Colony.** *Govt. Printer, Sydney.*

P. 181, Catalogue of New South Wales Timbers (Forest Branch); p. 212, Catalogue of New South Wales Timbers and other Vegetable Products (Technological Musuem, Sydney).

Catalogue of Exhibits in the Victorian Court. *Govt. Printer Melbourne.*

P. 44, Catalogue of Victorian Timbers (Technological Museum, Melbourne); p. 69, Catalogue of Fibres, some of them Australian (W. R. Guilfoyle).

CENTENNIAL INTERNATIONAL EXHIBITION, MELBOURNE, 1888.—**Catalogue of Exhibits in the New South Wales Court.** 8vo., *Govt. Printer, Sydney*, 1888.

P. 138, Descriptive Catalogue of Timbers, Fibres, Drugs, Leaves, Foods, Gums, Resins, and Kinos, Tanning Barks, from the Technological Museum; p. 358, Descriptive Catalogue of Timbers from the Forest Branch, Department of Mines.

Catalogue of the Exhibits in the Queensland Court. 8vo., *Warwick and Sapsford, Brisbane.*

Contains: 1. Miscellaneous Catalogue, pp. 71. 2. A Sketch of the Economic Plants of Queensland; by F. M. Bailey (includes notes on indigenous plants), pp. 73. 3. A few Queensland Grasses; by F. M. Bailey, pp. 30. 4. Queensland Woods; by F. M. Bailey, pp. 120.

NEW ZEALAND AND SOUTH SEAS EXHIBITION, DUNEDIN, 1889.—**Catalogue of the Exhibits in the New South Wales Court.** 8vo, pp. 152. *Govt. Printer, Sydney.*

P. 58, Catalogue of Timbers (Forest Branch); p. 104, Catalogue of Timbers, &c. (Technological Museum).

IV.—Foods.

(See also "Exhibition Literature," Melbourne, 1866, p. 9; Adelaide, 1887, p. 10; Melbourne, 1888, p. 11.)

Australian Spinach.—*Pharm. Journ.* [2] *VIII*, 734. Abstract from *Journal de la Ferme et des Maisons de Campagne.*

A note on the cultivation and culinary properties of *Chenopodium auricomum*, Lindl.

BACKHOUSE (J.) [*See* GENERAL, p. 1.]

BANCROFT (J.)—**Food of the Aborigines of Central Australia.** *Proc. Roy. Soc. Qd.*, 1884. Vol. 1, part 3.

BARTON (G. B.)—[*See* GENERAL, p. 2.]

BENNETT (G.)—[*See* GENERAL, p. 2.]

BENNETT (K. H.)—**Notes on the Method of Obtaining Water from Eucalyptus Roots, as practised by the natives of the country between the Lachlan and Darling Rivers.** *Proc. Linn. Soc., N.S.W., VIII*, 213.

BEVERIDGE (P.)—[*See* FIBRES, p. 53.]

CAIRNS (J.)—**On the Weir-Mallee, a water-yielding tree, the Bulrush, and Porcupine Grass of Australia.** *Proc. R. S. Vict., III*, 32.

Chiefly taken up with an account of the method employed by the natives to obtain water from Mallee roots.

COLLINS (D.)—**An account of the English Colony in New South Wales, with remarks on the dispositions, customs, manners, &c., of the native inhabitants of that country.** 4*to London, vol. I*, 1798; *vol. II*, 1802.

The Palm-nut tree and its use by the natives of coastal North Queensland for food. (*? Cycas media*) *II*, 229.

COOKE (M. C.)—**The Beech Morels of the Southern Hemisphere.** *The Technologist, IV*, 385; *Pharm. Journ.* [3] *I*, 264.

The Tasmanian Beech (*Fagus*) Morel (*Cyttaria Gunnii*) is figured and described.

Jew's Ear. *Pharm. Journ.* [3] *I*, 681.

A figure, and full popular description of the fungus *Hirneola auricula-Judæ*, exported to China from Australia and the South Sea Islands for making soup.

CUNNINGHAM (P.)—[*See* GENERAL p. 3.]

DRUMMOND (H.)—**Useful Products of Western Australia.** *The Technologist, II*, 25.

Foods of the natives are almost exclusively dealt with.

EYRE (E. J.)—**Journals of Expeditions of Discovery into Central Australia, and Overland from Adelaide to King George's Sound in the years 1840-41, &c., including an account of the manners and customs of the aborigines, &c.** 2 *vols., London*, 1845.

Mode of procuring water from Mallee roots, i, 349, ii, 248; Bark of Mallee roots for food, i, 371, ii, 249; Mesembryanthemum fruits, i, 221; *Nitraria Schoberi* fruits as food, i, 277, ii, 271; miscellaneous foods mostly referred to by native names, ii, 269; cooking vegetable foods, ii, 290; root of broad flag-reed (*Typha*), ii, 62.

FORREST (J.)—**Explorations in Australia: I. Explorations in search of Dr. Leichhardt and party. II. From Perth to Adelaide around the Great Australian Bight. III. From Champion Bay, across the Desert, to the Telegraph and to Adelaide.** 8*vo., London*, 1875.

Contains a few miscellaneous notes on edible and other plants.

GASON (S.)—**The manners and customs of the Dieyerie tribe of Australian aborigines.** Forms a chapter of "The Native Tribes of South Australia." 8*vo., Adelaide*, 1879.

P. 287, List of native names of the vegetable products used for food.

GREY (G.)—**Journals of two Expeditions of Discovery in North-west and Western Australia during the years 1837, 1838, and 1839, under the authority of Her Majesty's Government, describing many newly-discovered, important, and fertile districts, with observations on the moral and physical condition of the aboriginal inhabitants.** 2 *vols.*, *London*, 1841.

Gouty-stemmed trees (*Adansonia*), food yielded both by bark and fruit, i, 112 ; Native Oats, i, 197 ; Plains abounding in Warran plant (*Dioscorea*, or Yam), ii, 12 ; Wattle gum for food, ii, 260, 294 ; Name list of Foods, ii, 264 ; Edible Roots, ii, 291 ; By-yu (*Macrozamia* seeds), ii, 295 ; Evil effects of eating same without preparation, ii, 61.

A Vocabulary of the dialects of South-western Australia. *London*, 1840. 144 pp., 12*mo.*, 2*nd Ed.*

Contains notes on foods—*Hœmadorum* root, p. 12 ; By-yu (*Macrozamia* nuts), p. 22 ; Jeeta, p. 54 ; Kour-rain (? Olea), used for headache, p. 70 ; Warran (*Dioscorea* yams), p. 124 ; Yun-jee-die (*Typha* roots), p. 139.

GRIFFIN (G. W.)—**New Zealand Fungus.** "New Zealand ; her commerce and resources," p. 124. Also *U.S. Consular Reports*, 1882.

The above contain an exhaustive account of the above fungus (*Hirneola polytricha*), also found in Australia. Exported to China chiefly for food purposes.

GUNN (R. C.)—**Remarks on the Indigenous Vegetable productions of Tasmania available as food for man.** *Tas. Journ.*, *vol. I*, 1842, p. 203.

HEDLEY (C.)—**Uses of some Queensland plants.** *Proc. R. S. Qd.*, *vol. V*, *pt. I*, *p.* 10, 1888.

Edible native plants, chiefly of the Port Curtis district.

HOOKER (J. D.)—**On the Flora of Australia.** Its origin, affinities, and distribution, being an introductory essay to the Flora of Australia. *Lovell Reeve*, 1859.

Page CX, A list of some of the esculent plants of Australia.

JACKSON (J. R.)—**The Gouty-stem Tree** (*Adansonia Gregorii*). *The Student and Intellectual Observer*, July 1868, p. 401.

With a fine plate, showing the general appearance of this tree, and a full account of it.

KING (P. P.)—[*See* GENERAL, p. 4.]

KREFFT (G.)—**On the manners and customs of the Aborigines of the Lower Murray and Darling.** *Trans. Philos. Soc. N.S.W.*, 1862-5, p. 357.

Contains notes on aboriginal foods, fibres. &c.

LEICHHARDT (L.)—**Journal of an Overland Expedition in Australia, from Moreton Bay to Port Essington, a distance of upwards 8,000 miles, during the years 1844-45.** *8vo., London*, 1847.

P. 40, *Atriplex* and *Corypka* (*Livistona*); p. 95, *Santalum oblongatum* (fruits); p. 150, Yams; p. 201, Native Figs; p. 295, Ripe *Grewia* seeds for making acidulous drink; p. 479, Unripe Fruits of *Coniogeton arborescens* for same purpose; p. 374, *Terminalia* gum; pp. 400 and 406, How to prepare *Pandanus* fruits for food; p. 411, Sterculia seeds cooked for food and drink; p, 459, Purgative effects of beverage made from roasted *Acacia* seeds. Other scattered notes.

Journals of Dr. Ludwig Leichhardt's overland expedition to Port Essington. 32 *pp.*, 12*mo.* *W. Baker*, *Sydney*, 1846.

This pamphlet contains a few notes, chiefly on foods.

Report of the Expedition from Moreton Bay to Port Essington. *Tas. Journ.*, *III*, (*pt.* 1.) 1846, 18. From the Sydney *Australian of* 26 *March*, 1846.

Contains some notes on the uses of native plants.

Lectures on the Geology, Botany, Natural History, and capabilities of the country between Moreton Bay and Port Essington. *Tas. Journ.*, *III* (*pt.* 2), 1847, 81.

Economic botany at p. 98, *et seq*, chiefly the native food products of Northern Queensland, and what is now known as the Northern Territory.

Lectures delivered by Dr. Ludwig Leichhardt, at the Sydney School of Arts, on 18th and 25th August, 1846. 32 *pp.*, 12*mo.*, *W. Baker*, *Sydney*, 1846.

Lecture 2, p. 16, *et seq*, contain valuable notes on the indigenous plant foods of Northern Australia. *See* preceding.

MAIDEN (J. H.)—**Australian Indigenous Plants, providing human foods and food adjuncts.** *Proc. Linn. Soc.*, *N.S.W.*, [2], *III*, 481.

MAIDEN (J. H.)—[*See* GENERAL, p. 5.]

MILFORD (F.)—**The Macrozamia spiralis.** *Proc. R. S.*, *N.S.W.*, *X*, 1876, 295.

Starch from the seeds.

MITCHELL (T. L.)—**Three expeditions into the interior of Eastern Australia, with descriptions of the recently explored region of Australia Felix, and of the present Colony of New South Wales.** 2 *vols.*, *8vo.*, *2nd Ed.*, *London*, 1839.

Fruits of *Owenia acidula* (with fig.), eaten by the blacks, i., 82; Natives obtaining water from tree-roots, i, 197; *Trigonella suavissima* (Darling Clover), i, 222, 252, ii, 65; *Panicum lævinode* (*decompositum*), food of natives, i, 235, 287; Balyan (*Typha* roots), Native food, ii, 61, 81.

Journal of an Expedition into the Interior of Tropical Australia, in search of a route from Sydney to the Gulf of Carpentaria. *8vo.*, *London*, 1848.

Salt from *Rhagodia parabolica* (a saltbush), 53; Seeds of *Panicum lævinode*, 98.

MOORE (D.)—**On the Nardoo Plant of Eastern Australia.** *The Technologist, V,* 90.

The paper was read before a sectional meeting of the Royal Dublin Society. The subject is treated botanically, and from an economic point of view.

MUELLER (F. v.)—**The Plants indigenous around Shark's Bay, chiefly from the collections of the Hon. John Forrest.** *Half-folio. Govt. Printer, Perth,* 1883.

Acacia cibaria, Canavalia obtusifolia, Claytonia polyandra are native food-plants taken cognizance of.

Botanical Report on the North Australian expedition, under the command of A. C. Gregory, Esq. *Journ. Linn. Soc.* (*Bot.*), *II,* 137.

Contains interesting notices of food plants, and a few notes on timbers and medicinal plants.

On the Gunyang (*Solanum vescum*), **a new indigenous fruit.** *Trans. and Proc. Victorian Inst.,* 1854 and 1855, *p.* 67. *Hooker's Lond. Journ. of Bot., VIII,* (1856), *p.* 336.

MUELLER (F. v.)—[*See* GENERAL, p. 5.]

MUELLER (F. v.)—[*See* DRUGS, p. 23.]

PALMER (E.)—**On Plants used by the Natives of North Queensland, Flinders and Mitchell Rivers, for food, medicine, &c., &c.** *Proc. R. S., N.S.W., XVII,* 93.

P. 93, Foods; p. 106, Plants used for medicine and to stupefy fish; p. 108, Plants and trees used by the natives for manufacture of bags, cordage, and implements.

RENNIE (E. H.)—**On the Acids of the Native Currant** (*Leptomeria acida*). *Proc. R. S., N.S.W., XIV,* 119.

The fruit contains malic acid as its principal acid constituent.

Notes on the Sweet Principle of *Smilax glycyphylla. Proc. R. S., N.S.W., XX,* 213.

On Glycyphyllin, the Sweet Principle of *Smilax glycyphylla. Journ. Chem. Soc., XLIX,* 857.

RENNIE (E. H.)—[*See* WRIGHT (C. R. A.)]

RICHARDS (A. F.)—**Notes on Food-Plants from Fowler's Bay, S.A.** *Proc. R. S., S.A., IV,* 136.

Claytonia Balonnensis, Solanum hystrix, S. simile, as used by the local blacks.

SCHÜRMANN (C. W.)—**The Aboriginal Tribes of Port Lincoln, in South Australia; their Mode of Life, Manners, Customs, &c.** Forms a chapter of "The Native Tribes of South Australia." *8vo., Adelaide,* 1879.

P. 216, Vegetable foods of the blacks, and how prepared.

SOUTHALL (W.)—**Note on a specimen of** *Mylitta australis* (with figure). *Trans. Brit. Pharm. Conf.*, 1884, 524.

STOKES (J. L.)—*See* GENERAL, p. 6.]

STURT (C.)—**Two Expeditions into the Interior of Southern Australia, during the Years 1828, 1829, 1830, and 1831; with observations on the Soil, Climates, and General Resources of the Colony of New South Wales.** 2 *vols.*, 8*vo.*, *London*, 1833.

Natives feeding on gum, I, 118.

Narrative of an Expedition into Central Australia, &c., during the Years 1844, 1845, and 1846, &c., together with a notice of the province of South Australia. 2 *vols.*, 8*vo.*, *London*, 1849.

Food of natives, II, 140.

VEGETABLE FOODS.—**The Native Vegetable Foods of the Colonies (Australian).** *Colonies and India*, 1877, *No. CCXLI*, *March* 31, p. 6.

WHITE (J.)—[*See* KINOS, p. 40.]

WILHELMI (C.)—[*See* GENERAL, p. 7.]

WILLS (W.)—**A successful Exploration through the Interior of Australia, from Melbourne to the Gulf of Carpentaria. From the Journals and Letters of William John Wills.** *Edited by his father, William Wills.* 8*vo.*, *London*, 1863.

Brief notes on nardoo and bedgery or pedgery (pituri), p. 283. Wills' diary of starvation on nardoo, p. 302 *et ante.*

WOOLLS (W.)—[*See* GENERAL, p. 7.]

WRIGHT (C. R. A.) and RENNIE (E. H.)—**Note on the Sweet Principle of** *Smilax glycyphylla*. *Journ. Chem. Soc.*, *XXXIX*, 237. *Pharm. Journ.* [3], *XI*, 808.

WYNDHAM (W. T.)—**Australian Aborigines; varieties of food and methods of obtaining it.** *Proc. R.S., N.S.W.*, *XXIV*, 112.

A few notes of vegetable foods at p. 117.

V.—Forage Plants.

(See also "Exhibition Catalogues":—Melbourne, 1866, p. 9; Sydney, 1879, p. 10; Melbourne, 1880, p. 10; Melbourne, 1888, p. 11.)

BACCHUS (W. H.)—**A Description of some Victorian and other Australian Grasses.** *Second Ann. Report of the Secretary for Agriculture*, Melbourne, 1874.

A valuable monograph, illustrated by 32 excellent plates.

BAILEY (F. M.)—**Our Grasses (Queensland).** *Papers and Proc. R. S., Tas.*, 1875, *p.* 127.

An account of the grasses of Queensland from an economic point of view.

Bailey (F. M.)—[*See* EXHIBITION LITERATURE, p. 11.]

Dixon (S.)—**Remarks on some Indigenous Shrubs of South Australia, Suitable for Cultivation as Fodder.** *Proc. R. S., S.A., VIII,* 14.
A valuable account of the principal fodder plants of the drier parts of South Australia, Victoria and New South Wales.

Dixon (W. A.)—**On Salt-bush and Native Fodder-plants of New South Wales.** *Proc. R. S., N.S.W., XIV,* 133.
Analyses (proximate) of the whole plant, and also analyses of the ash.

Maiden (J. H.)—**Indigenous Australian Forage-plants (non-grasses), including Plants Injurious to Stock.** *Proc. R. S., N.S.W., XXII,* 204.

Maiden (J. H.)—[*See* GENERAL, p. 5.]

Tate (R.)—**Note on Sarcostemma australe.** *Proc. R. S., S.A., IV,* 136.
Above plant as food for stock, Eastern Plains, South Australia.

Tepper (J. G. O.)—**Numerous Papers on Indigenous Grasses in** *Garden and Field, Adelaide.*

Turner (F.)—**Fodder-plants and Grasses of Australia.** *Proc. Aust. Assoc. Adv. Sci., II,* 586.

A Census of the Grasses of New South Wales. *Roy. 8vo., pp.* 57. *Govt. Printer, Sydney,* 1890.
Issued under the auspices of the Department of Agriculture.

A series of illustrated articles on our Native Grasses, in " Agricultural Gazette." *Govt. Printer, Sydney.*

Woolls (W.)—**On the Forage Plants Indigenous in New South Wales.** *Proc. Linn. Soc., N.S.W., VII,* 310.

VI.—Stock Poisons.

(Plants Poisonous to Stock, or reputed to be so.)

Bailey (F. M.) and Gordon (P. R.)—**Plants reputed Poisonous and Injurious to Stock.** *Govt. Printer, Brisbane,* 1887.
Illustrated. Refers almost exclusively to native plants.

Plants injurious to stock. *Ann. Report Dept. Agric. Queensland,* 1890–1 *p.* 44.
Contains records of several additional plants.

Euphorbia Drummondii.—*Dept. Agric., Victoria, Bulletin, No.* 1, *p.* 42 (June, 1888).
A resumé of information to date in regard to the supposed poisonous nature of the plant.

FRAMPTON (ALGERNON)—**Report of Experiments made to Ascertain the Action of a Poisonous Plant.** *Tas. Journ., III*, 313 (1849); *Pharm. Journ., VI*, 312.

This paper refers to a species of *Gastrolobium.*

GORDON (P. R.)—[*See* "BAILEY (F. M.)."]

HAMLET (W. M.)—**Report on Beans from the Castanospermum australe, with the view to ascertain the cause of their Poisonous effects on Stock.** *Dept. of Mines (N.S.W.), Annual Report*, 1886, *p.* 46.

No poisonous substance found, but a high percentage of indigestible matter.

Anthrax in Australia: with some account of Pasteur's method of vaccination. *Trans. Intercol. Med. Congress of Australasia, Melbourne*, 1889.

The properties of several alleged poisonous plants are incidentally referred to.

MUELLER (F. v.)—**Notes on Gastrolobium grandiflorum.** *Trans. R. S., Vict., vol. VI*, 1861-4, *p.* 147. *Journ. Bot., III*, 325.

Note on the deleterious property of Omalanthus. *Austral. Chem. and Drugg., September*, 1883.

Death of cattle at Bulli, New South Wales, from eating *O. populifolius.*

STANLEY (E.)—**Euphorbia Drummondii.** *Agric. Gazette (N.S.W.), vol. I* (1890).

He combats the popular belief in the poisonous nature of this plant, adducing much evidence. He even pronounces it to be a useful fodder plant.

WALTER (T. R. C.)—**Notice of a Poisonous Leguminous Plant from Swan River, New South Wales** *(sic).* (A species of *Gastrolobium.*) *Pharm. Journ., VI*, 311.

VII.—Drugs.

(See also "Eucalyptus," p, 25. See also "Exhibition Literature," Melbourne, 1861, p. 8; Melbourne, 1866, p. 9; Melbourne, 1888, p. 11.

Alstonia constricta (**The Alkaloids of**). *Pharm. Journ.*, [2], *IX.*, 1069.

A resumé.

Alyxia buxifolia.

Letters patent, No. 886, dated 15th August, 1888, were granted in New South Wales for the discovery of the medicinal properties and virtues of *Alyxia buxifolia*, and the production thereof of Austral Marine Bitters, and other distilments and compounds of the said *Alyxia buxifolia.*

ARMIT (W. E.)—**Notes on certain plants of North-western Queensland, possessing valuable medicinal properties.** *Journ. Linn. Soc.* (*Bot.*), *XX*, 69 (1882).

Grewia polygama, *Careya arborea*, *Petalostigma quadriloculare*, *Andropogon vitreus*, and *Datura alba* are dealt with.

BAILEY (F. M.)—**Medicinal Plants of Queensland.** *Proc. Linn. Soc., N.S.W.*, *V*, 1.

BANCROFT (J.)—**Pituri,** *Trans. Queensland Philosoph. Soc.*, 1877.

On the Pituri Poison. *Trans. Queensland Philosoph. Soc.*, 1872.

Further remarks on the Pituri group of plants. *Trans. Queensland Philosoph. Soc.*, 1878.

Pituri and Tobacco. *Trans. Queensland Philosoph. Soc.*, 1879.

The above papers contain an exhaustive account of Pituri and allied plants, together with the results of Dr. Bancroft's experiments on the value of Pituri for ophthalmic purposes.

Contribution to Pharmacy from Queensland. pp. 15. *Brisbane, Warwick & Sapsford.*

Useful notes on articles of Australian materia medica. Printed for the Colonial and Indian Exhibition, 1886. Review in *Pharm. Journ.*, [3], *XVII*, 142. Refers chiefly to drugs, oils, and kinos.

BANCROFT (T. L.)—**Pharmacology of some Queensland Plants.** *Proc. Roy. Soc., Qd.*, *Vol. IV.*

Contains the following papers:—

1. On the poisonous property of *Nicotiana suaveolens.*
2. On the discovery of saponin in *Acacia delibrata.*
3. On the physiological action of *Cryptocarya australis.*
4. On the physiological action of *Daphnandra repandula.*

Research into the Pharmacology of some Queensland plants, being a resumé of three years' work. *Printed for the author at Christchurch, N.Z.*, Feb., 1888.

On the materia medica and pharmacology of Queensland plants. *Trans. Intercol. Med. Congr. Austral.*, 1889.

This and the preceding paper contain numerous notes on the physiological action of various Australian plant products.

Preliminary notes on some new poisonous plants discovered on the Johnstone River, North Queensland. *Proc. R. S., N.S.W.*, *XX*, 69.

Physiological experiments.

Preliminary notes on the Pharmacology of some new poisonous plants. *Proc. Linn. Soc., N.S.W.*, [2], *IV*, 1061.

The Australian ones dealt with are:—*Marlea vitiensis*, *Luffa ægyptiaca*, *Papaver horridum*, *Solanum verbascifolium*, *Stephania hernandiæfolia.*

Preliminary notes on some new poisonous plants. *Proc. R. S., Qd.*, *VIII*, *Part II.*

The plants dealt with are:—*Pericampylus incana*, *Sarcopetalum Harveyanum*, *Melicope erythrococca*, *Acacia Cunninghamii*, *Ægiceras majus.*

BENNETT (G.)—**Notes on Pituri.** *N.S.W., Medical Gaz., III, 8th May,* 1873.

BENTLEY (R.) AND TRIMEN (H.)—**Medicinal Plants, being descriptions with original figures of the principal plants employed in medicine.** *London, J. and H. Churchill,* 1880.
Plate 109 is *Eucalyptus globulus.*

BOSISTO (J.)—**Note on** *Daviesia latifolia* **(Abstract).** *Proc. Aust. Assoc. for Adv. of Science,* 1890, p. 554.
Drawing attention to the bitter principle contained in this plant.

BROWN (N. E.)—**Physiological effects of stinging by** *Laportea gigas. Gard. Chron.,* 1882, p. 567. *Abstr. in Pharm. Journ.,* [3], *XIII,* 141.

CHRISTY (J.)—**Euphorbia pilulifera.** *Amer. Drugg.,* 1885, 64.
Discussed as a remedy for asthma.

CURL (S. M.)—**On Pituri, a new vegetable product that deserves further investigation.** *Trans. N.Z. Inst., XI,* 411.
A précis of information on the narcotic up to date (1878).

DICKINSON (W. L.)—[*See* also " LANGLEY and DICKINSON.]

DIXSON (T.)—**Note on Drumine.** *Trans. Intercol. Med. Congr., Melb.,* 1889.
The author pronounces against the alkaloidal nature of the substances which go under the above name.

Drumine. *Pharm. Journ.* [3], *XVIII,* 567.
This so-called alkaloid pronounced to consist mainly of calcium oxalate.

Duboisine. *Pharm. Journ.,* [3], *XX,* 709.
Recapitulation of work in connection with the " basic substance " to date.

Duboisine and its use in the Colonies. *Pharm. Journ. of Australasia, May,* 1891.
A brief resumé of work to date.

ELOY (M.)—**Euphorbia pilulifera**; Physiological properties and therapeutic uses. *Rép. de Pharm., Jan.,* 1886. *Pharm. Journ.* [3], *XVI,* 641.

FALCO. *Petalostigma quadriloculare. Chem. Cent.,* 1867, 142; *Watts' Dict., VII,* 239.

FLÜCKIGER (F. A.) AND HANBURY (D.)—**Histoire des Drogues d'origine végétale, par F. A. Flückiger et Daniel Hanbury. Traduction de l'ouvrage anglais "Pharmacographia," augmentée de très nombreuses notes par le Dr. J. L. de Lanessan. 320 figures dessinées pour cette traduction.** 2 *vols., 8vo., Paris,* 1878.
Kino d'Australie, kino d'Eucalyptus, I, 360; feuilles d'Eucalyptus (with particular reference to oil yield), and figure of *E. globulus* and of microscopic section (enlarged) of the leaf, I, 512; Ecorce d'*Alstonia constricta,* II, 70.

FRASER (T. R.)—**The Pituri poison of Australia.** *Proc. R. S., Edin., X,* 200. (In abstract.)

Chiefly a précis of Dr. Bancroft's observations.

GERRARD (A. W.)—**The Alkaloid and active principle of Duboisia myoporoides.** *Pharm. Journ.* [3], *VIII,* 787.

Announces the isolation of an alkaloid. Records physiological experiments with it by Drs. Sydney Ringer and Murrell.

Preliminary Examination of Pituri and Pitchere. *Trans. Brit. Pharm. Conf.,* 1878. *Pharm. Journ.* [3], *IX,* 251.

Crystallized Duboisine. *Pharm. Journ.* [3], *XI,* 383.

Exhibited to the Pharmaceutical Society of Great Britain.

GOYDER (G.)—[*See* "RENNIE and GOYDER."]

HANBURY (D.)—[*See* "FLÜCKIGER and HANBURY."]

HESSE (O.)—**Ueber die Alkaloïde der Ditarinde.** *Annalen der Chemie., CCIV.,* 144. *Pharm. Journ.* [3], *XI,* 331.

Ueber die Rinde von ***Alstonia spectabilis.*** *Annalen der Chemie., CCIII.,* 170.

Although these papers deal with non-Australian Alstonias, it is necessary to read them in conjunction with the same author's researches on *A. constricta.*

Ueber Porphyrin und Chlorogenin. *Annalen der Chemie. Suppl. Band., IV,* 40 (1865).

Alkaloids obtained from *Alstonia constricta.*

Beitrag zur Zenntniss der australischen Alstoniarinde. *Annalen der Chemie., CCIII.,* 360 (1880).

The alkaloids in the bark of *Alstonia constricta.*

Contribution to the knowledge of Australian Alstonia Bark. *Pharm. Journ.* [3], *XI,* 775. *Journ. Chem. Soc., XL,* 623.

Abstract of the foregoing.

Notizen über einige Chinin surrogate. *Deuts. Chem. Ges., Ber., XI,* 1546.

Nachträgliche Bemerkung über ***Alstonia constricta.*** *Ber., XI,* 1,753.

Beitrag zur Kenntniss der Alstoniarinden. *Ber., XI,* 2,234.

For abstracts of these three papers on *Alstonia* barks, which should be taken together, see *Journ. Chem. Soc., XXXVI,* 269, 332.

HESSE (O.)—[*See* also "JOBST and HESSE."]

HOLMES (E. M.)—**Duboisia myoporoides.** *Pharm. Journ.* [3], *VIII,* 705.

HOLTZE (N.)—**An acid secretion from the seeds of** ***Grevillea mimosoides.***

The secretion, which is powerful and acrid enough to produce sores, the scars of which remain from many months after, is thought to be useful in protecting the seeds from the attacks of cockatoos. *Victorian Naturalist, March,* 1891.

JOBST (J.) and HESSE (O.)—**Ueber die Ditarinde.** *Annalen der Chemie., CLXXVIII*, 49 ; *Journ. Chem., Soc., XXIX*, 276 ; *Pharm. Journ.* [3], *VI*, 142 ; *Watts' Dict., VIII*, (1) 688.

An exhaustive research on a bark, which, although indigenous in Queensland, is best known in India and the Archipelago. It has been examined by several chemists, Hesse's research (*Annalen CCIII*), being the most important.

KEW REPORTS.—[*See* GENERAL, p. 4.]

LADENBURG (A.)—**Sur les alcaloïdes naturels et mydriatiques de la Belladone, du Datura, de la Jusquiame, et de la Duboisia.** *Comptes Rendus, XC*, 874. Abstract in *Pharm. Journ.* [3], *IX*, 871.

"I have only been able to obtain from *Duboisia myoporoides* one alkaloid, which I have shown to be identical with hyoscyamine. It is, therefore, probable that hyoscyamine or 'daturine légère' of commerce, would be able to render the same services in diseases of the eye as duboisine."

Ueber das Duboisin. *Ber., XIII*, 257. *Journ. Chem. Soc., XXXVIII*, 675. *Pharm. Journ.* [3], *XVII*, 1,049.

Apparent identity of Duboisine with Hyoscine.

LADENBURG (A.) and PETERSON (F.)—**Ueber das Duboisin.** (Aus dem Chemischen Institut der Universität Kiel.) *Ber., XX*, 1,661.

The authors prove the identity of duboisine with hyoscyamine by showing that there is no difference between the aurochlorides of the two bases.

LANGLEY (J. N.) and DICKINSON (W. L.)—**The Physiological action of Pituri and Nicotin.** *Journ. Physiol., XI*, 265. I am indebted for the following abstract to *Journ. Chem. Soc., LVIII*, 1,178.

The main result of the present experiments is to show that the physiological action of pituri is identical with that of nicotine. It is possible that pituri leaves, like tobacco leaves, may contain more than one alkaloid ; but that pituri leaves contain nicotine does not admit of doubt, unless it be supposed that different chemical substances have the same physiological action. Very complete account of the physiological action of the two drugs on both frogs and mammals. A complete bibliography of the subject is also given.

LIVERSIDGE (A.)—**The alkaloid from Pituri.** *Proc. R. S., N.S.W., XIV*, 123.

Announces that alkaloid to be new, and names it Piturine.

MAIDEN (J. H.)—**Some reputed medicinal plants of New South Wales.** *Proc. Linn. Soc., N.S.W.*, [2], *III*, 355. [*See* also GENERAL, p. 5.]

MARSSET (A.)—**A contribution to the study of** ***Euphorbia pilulifera.*** *Therapeutic Gaz. (Detroit, U.S.A.), IX (new series, I)*, 92. *(Fe .,* 1885.)

A full botanical and therapeutic account.

MERCK.—*Merck's Bulletin, I,* (5), 1888. *Journ. Soc. Chem. Ind., VII,* 866.
Alstonine (Chlorogenine), like Quinine and Strychnine.

MOELLER (J.)—**Microscopic structure of the leaves of** *Duboisia myoporoides. Pharm. Centralhalle,* 1883, No. 20.

MOSS (J.)—**Mackay Bean, the seed of** *Entada scandens. Trans. Brit. Pharm. Conf.,* 1887, 454.
An investigation into the alleged poisonous nature of this bean. A saponin was found, but the investigation was not completed.

MUELLER (F.)—**Australian Medicinal Plants.** *Pharm. Journ., XV,* 114.
Extracted from a report on the vegetation of Victoria addressed to the Colonial Secretary, 5th September, 1853.
Deals also with some foods, &c., in addition to medicinal products.

Notes on some rare and Medicinal Plants of Australia. *Quart. Journ. Pharm. Soc., Vict., II,* 43 (1859).

Die Pflanzen der Australischen Continentes, welche vorzugsweise ihrer medicinischen Eigenschaften wegen Verwendung finden. *Dresden, Sitzungsber. Isis,* p. 195 (1873).

MUELLER (F. v.)—**An alkaloid from** *Anthocercis viscosa. Pharm. Journ.* [3], *IX,* 1,055, from *Zeits. Œst. Apoth. Verein., 10th June,* 1878.
Announces the separation of a yellow oily alkaloid, which he calls *Anthocercine.*

MUELLER (F. v.) and RUMMEL (L.)—**Notes on two Vegeto-Alkaloids.** *Journ. Chem. Soc., XXXV,* 31. *Pharm. Journ.* [3], *IX,* 441.
Alstonin, an orange yellow brittle mass, from the bark of *Alstonia constricta,* and *Duboisine,* a volatile alkaloid from the leaves of *Duboisia myoporoides.*

MURRAY (J. P.)—**Pituri.** *The Lancet, 18th January,* 1879. *Quoted in Pharm. Journ.* [3], *IX,* 638.
Account of its use by the blacks.

MURRELL (W.)—[*See* "RINGER and MURRELL."]

MUSSON (C. T.)—**On the effects of eating Pigeons which have fed on the seeds of** *Euphorbia Drummondii. Proc. Linn. Soc., N.S.W.,* [2], *IV,* 389.
Stomach derangement is attributed as a result of eating this food.

OBERLIN and SCHLAGDENHAUFFEN.—**Alkaloids of the bark of Alstonia constricta.** *Pharm. Journ. Trans.* [3], *X,* 1,059. *Journ. Chem. Soc., XXXVIII,* 127.
The authors find an amorphous alkaloid called alstonicine in the ethereal mother liquors from which alstonine had crystallised. I have not seen the original.

PALM.—**Research on** *Alstonia constricta.* *Jahresb.*, 1863, 615. *Wittstein's Viertelj. Jahresbericht Pharm.*, *XII*, 161. *Gmelin*, *XVIII*, 214. *Watts' Dict.*, *VI*, 101.

PALMER (E.)—[*See* FOODS, page 15.]

PETIT (A.)—**The Alkaloid of Pituri.** *Pharm. Journ.* [3], *IX*, 819.
Conclusion, "The alkaloid of Pituri is therefore nicotine."

PETTIGREW (W.)—**On the curative properties of the Cunjevoi,** (*Colocasia macrorrhiza*). *Proc. R. S., Qd.*, Vol. II, pt. 2, 1885, p. 211.

Relieves the pain caused by the Giant Nettle tree (*Laportea gigas*), and also bruises, &c.

REID (J.)—**Euphorbia Drummondii.** *Austral. Med. Gaz.*, *Oct.*, 1886. *Amer. Journ. Pharm.*

This plant is stated to contain an alkaloid, to which it is proposed to give the name *drumine.* This substance is alleged to produce local anæsthesia, but this is not confirmed by Dr. Ogston (*Brit. Med. Journ.*, *Feb.* 26, 1887), working with material received direct from Dr. Reid.

Recent researches on *Euphorbia Drummondii.* A paper read before the Intercolonial Medical Congress of Australasia, Melbourne, January, 1889, but published privately by the author. Printed by J. Wing & Co., Collingwood, Melbourne.

RENNIE (E. H.) and GOYDER (G.)—**Note on the alkaloids of** *Strychnos psilosperma.* *Proc. R. S. Vict.*, *IV* (new series), 29.
Strychnine and Brucine are both contained in the fruits.

RINGER (S.) and MURRELL (W.)—**On Pituri.** *Journ. Physiol.*, *I*, 377:
Resumé of knowledge of the subject to date, with an account of physiological experiments. A conclusion is that, while the alkaloid retains the properties of solanaceous plants, it differs somewhat from Atropia. It is suggested that it may be Atropia slightly modified.

A few further experiments with Pituria. *Journ. Physiol.*, *II*, 132.
Chiefly experiments on the exposed hearts of brainless frogs.

RINGER (S.)—**The action of Pituri on Man.** *The Lancet*, 1*st March*, 1879.

RINGER (S.)—[*See also* "TWEEDY and RINGER."]

RUMMEL (L.)—[*See* "MUELLER and RUMMEL," p. 23.]

SCHLAGDENHAUFFEN.—[*See* "OBERLIN and SCHLAGDENHAUFFEN," p. 23.]

SIMMONDS (P. L.)—**The Medicinal Plants of Australia.** *Pharm. Journ.*, *XIII*, 616.
A resumé of Mueller's Report, 1853.

SOUTER (J. F.)—**Case of poisoning of a child of three through eating Wild Melon** *(Cucumis trigonus)*; **recovery.** *Austral. Med. Gaz., Chem. and Drugg. of Austral., V,* 7.

TRIMEN (H.)—[*See* "BENTLEY and TRIMEN," p. 20.]

TWEEDY (J.) and RINGER (S.)—**On the mydriatic properties of** *Duboisia myoporoides. The Lancet, 2nd March,* 1878.

Report on the physiological action of the drug. "The physiological action of the extract of Duboisia is apparently identical with that of Atropia."

WOOLLS (W.)—**Plants of New South Wales having medicinal properties.** *Victorian Naturalist, IV,* 103.
[*See also* GENERAL, p. 7.]

VIII.—Eucalyptus Oils and Eucalyptus in General.

(The genus Eucalyptus possesses a literature of its own, and it is practically most convenient to treat it separately. See also "Timbers.")

See also "Exhibition Literature," Melbourne, 1861, p. 8 ; Dublin, 1865, p. 9 ; Melbourne, 1866, p. 9.

ABERG (E.)—**Irrigacion y Eucalyptus.** *8vo.* Buenos Aires, 1874.

AITKEN (L.)—**Planting of Eucalypts in the Campagna, near Rome.** *B. Med. Journ., 27th Sept.,* 1884. *Pharm. Journ.* [3], *XV,* 293.

The writer, an English physician at Rome, pronounces the planting, of which so much has been said, to have been a costly failure.

BANCROFT (J.)—[*See* DRUGS, p. 19.]

BANCROFT (T. L.)—**Distillation of native essential oils from a commercial aspect.** *Proc. Roy. Soc. Qd., VI,* pt. 1, 1889.

He pronounces that the perfume essential oils of certain species *of Eucalyptus* and *Backhousia citriodora* cannot be profitably manufactured in Queensland.

BENTLEY (R.)—*Eucalyptus globulus. Pharm. Journ.* [3], *IV,* 450.
Notes, chiefly botanical.

The characters, properties, and uses of *Eucalyptus globulus* **and other species of** *Eucalyptus. Pharm. Journ.* [3], *IV,* 872.

Abstract of a lecture given before the Royal Botanic Society of London.

Eucalyptus globulus. *Pharm. Journ.* [3], *VIII,* 865.

A lecture before the Pharmaceutical Society, embodying the latest information on the subject up to that time.

BONAVIA (Dr.)—**Failure of *Eucalyptus globulus* at Lucknow, India.** *Gardeners' Chron.*, 1885, p. 762. *Pharm. Journ.* [3], *XV*, 1,069.

E. citriodora succeeds better.

BOSISTO (J.)—**Abstract of a paper on the yield and uses of Volatile oils from native and imported plants in the Colony of Victoria.** *Trans. R. S. Vict.*, Vol. *VI* (1861-4), p. 52.

Eucalyptus, Melaleuca, Atherosperma, Prostanthera, Zieria, Eriostemon, Mentha, Pittosporum.

Is the Eucalyptus a fever-destroying tree? *Proc. R. S. Vict.*, *XII*, 10. *Pharm. Journ.* [3], *V*, 270.

The influence of these trees from a hygienic point of view is discussed, with especial reference to their oil-yield.

The Materia medica of the Eucalyptus. *Aust. Journ. Pharm.*, 1886. *Pharm. Journ.* [3], *XVI*, 802.

Chiefly refers to oils and kinos.

The indigenous vegetation of Australia, with special reference to the Eucalypti. *Pharm. Journ.* [3], *XVII*, 13.

Preparations of Eucalyptus. *Austral. Journ. of Pharm.*, *Jan.*, 1886. *Pharm. Journ.* [3], *XVI*, 802.

BRIOSI (G.)—**Ricerche intorno all' anatomia delle foglie dell'** *Eucalyptus globulus.* 23 *pl.*, *Milano*, 1892.

An exhaustive investigation of the anatomical structure of the leaves.

British Pharmacopœia, (1885) **The.** *Spottiswoode & Co. Oleum Eucalypti*, p. 286.

BROUGHTON (.)—**Eucalyptus globulus.** *Pharm. Journ.* [3], *IV*, 150.

Abstract of a report to the Chief Secretary of Government, Fort St. George, dated 1873, in which Mr. Broughton says:—"I have examined the bark and leaves, and have the honour to state that neither quinine, quinidine, cinchonidine, nor cinchonine is contained in the plant in any proportion."

BROWN (J. C.)—**African Fever and Culture of the Blue-gum tree.** *Small 8vo.*, pp. 50, *Aberdeen, W. and W. Lindsay*, 1890.

Contains M. Vallée's report on the cultivation of Eucalyptus at Tre Fontane, near Rome.

BRUN (M.)—**Observ. chim. sur l'Eucalyptus globulus.** *Paris*, 1872.
Finds an alleged alkaloid in the leaves called Eucalyptine.

CAMPION (J.)—**L'Eucalyptus globulus et l'Eucalyptol.** *Paris*, 1872.

CARLOTTI (R.)—**Notes on Eucalyptus globulus.** *Mém. lu à la Soc. de méd. d'Alger.* (*Corse*, 1869.)

Cloëz (S.)—**Etude chimique de l'Eucalyptol.** *Compt. Rend., LXX*, 687. *Ann. Ch. Pharm., CLIV*, 372. *Watts' Dict., VII*, 493. *Pharm. Journ.* [3], *I*, 78. Contains an abstract from *Répertoire de Pharmacie.*
A chemical investigation of the oil of *E. globulus* from the leaves of trees grown on the shores of the Mediterranean. Defines Eucalyptol and Eucalyptene.

Colemane (A. W.)—A letter traversing some of the statements in Prof. Stuart's paper, p. 33. *Chem. and Drugg., XXXVIII*, p. 385. (14*th March*, 1891.)

Davies (R. H.) and Pearmain (T. H.)—**Some notes on oil of Eucalyptus and Eucalyptol.** *Trans. Brit. Pharm. Conf.*, 1891. *Pharm. Journ.* [3], *XXII*, 235.
An exhaustive chemical and physical examination of a large number of Eucalyptus oils of various species.

Eucalyptol and Eucalyptus Oil. *Chem. and Drugg.*, 27th August, 1892, p. 315. (Paper read before *Brit. Pharm. Conf.*)
The authors obtained few Eucalyptol by freezing oils of *Eucalyptus oleosa* and other species. They give the boiling point and rotatory power of Eucalyptol, and also confirm its identity with Cineol.

Eucalyptol in Phthisis. *Chem. and Drugg.*, 19*th March*, 1887.

Eucalyptus globulus. *Pharm. Journ.* [3], *VIII*, 26.
Contains formulæ of Eucalyptus preparations as adopted by the Paris Pharmaceutical Society.

Eucalyptus globulus **(The) as a disease-destroying tree.** *Pharm. Journ.* [3], *IV*, 494.
Contains a brief account of M. Gimbert's experiments on the subject in Algeria, also an account of the tree from *The Gardeners' Chronicle*, 1873.

Eucalyptus Oils. *Pharm. Journ.* [3], *IX*, 430. From *Zeitschrift d. Œsterr. Apoth. Ver.* Nos. 24-26, and *New Remedies, Nov.*, 1878.
Brief descriptions of the oils of several species.

Eucalyptus plantations of Algeria (The).—*Pharm. Journ.* [3], *III*, 731.
Abstract of an account of the extent to which *E. globulus* is planted in North Africa, as given in the *Pall Mall Gazette.*

Eucalyptus Products. *Pharm. Journ.* [3], *XVI*, 581.
Oils are dealt with.

Faust (A.) and Homeyer (I.)—**Ueber Eucalyptol.** *Deuts. Chem. Ges. Ber., VII*, 63 (1874). *Journ. Chem. Soc., XXVII*, 475. *Watts' Dict., VIII* (1), 761.
Proving the Eucalyptol of Clöez to consist of a terpene mixed with cymene.

Ueber Eucalyptusöl. *Deuts. Chem. Ges., Ber., VII,* 1,429. *Journ. Chem. Soc., XXVIII,* 371. *Watts' Dict., VIII* (1), 761.

The Eucalyptol of Clöez has already been shown to consist of a terpene mixed with cymene, and the authors noticed the presence of two other fluid substances in the crude oil. One is a terpene boiling at 150°–151°, and the other is an oily liquid, probably a camphor-like substance.

FEDELI (Dr.)—**The Eucalyptus globulus; its hygienic and medical properties.** *Pharm. Journ.* [3], *VI,* 912.

Abstract of a paper read before the Academy of Medicine, Rome.

GILDEMEISTER (E.)—[*See* "WALLACH and GILDEMEISTER," p. 33.]

GLADSTONE (J. H.)—**On Essential Oils.** *Part* I, *Journ. Chem. Soc., XVII,* 1. *Part* II, *op. cit., XXV,* 1, includes *Atherosperma moschata, Eucalyptus amygdalina, E. oleosa, Melaleuca ericifolia, M. linariifolia. Part* II *in abstr., Pharm. Journ.* [3] *II,* 687, 704, 745. See also *Watts' Dict., VII,* 871.

GLOVER (R. D.)—**Anti-malarial properties of the Eucalyptus.** *Pharm. Journ.* [3], *VI,* 625.

Account of the planting of *E. globulus* in the Campagna, near Rome, by the Trappist monks. See also *Pharm. Journ.* [3], *VII,* 160.

GRIMWADE (E. H.)—**Eucalyptus Oil.**

Letter in *Pharm. Journ.* [3], *XIV,* 836, pointing out the two species used by Mr. Bosisto (*amygdalina* and *dumosa.*)

GUBLER (M.)—**The Eucalyptus globulus and its use in medicine.** *Bull. génér. de Therapeut. Aout et Sept.,* 1871; *Pharm. Journ.* [3], *II,* 703. *Abstr. from Journal de Pharmacie et de Chimie, Dec.,* 1871.

Refers to Clöez' researches, and discusses the value of the oil in diseases of the respiratory organs.

HARTZEN (F. A. de)—**Recherches sur l'Eucalyptus globulus.** *Compt. Rend., LXXXI,* 1,248. *Journ. Chem. Soc., XXIX,* 615.

Chemical examination of the alcoholic extract of the leaves. (In abstract.)

HARTZER (P. A.)—**Untersuchungen über Eucalyptus globulus. (Mit Bemerkungen über das Wesen der Harze).** *Deuts. Chem. Ges., Ber., IX,* 314. *Journ. Chem. Soc., XXIX,* 942. *Watts' Dict., VIII,* (1) 762.

Resinous extract of the old leaves of *E. globulus.*

HELBING (H.) and PASSMORE (F. W.)—**The Constituents of Eucalyptus Oils.** *Bull. Pharm., VI.* 301, (*July,* 1892.)

An admirable résumé of modern investigations under the following headings:—Terpenes, Camphors, Aldehydes and Ketones, Alcohols and Esters.

Investigation of Oil of *Eucalyptus cneorifolia. Chem. and Drugg., XL,* 837, (11*th June,* 1892.)

HOLMES (E. M.)—**The Eucalyptus Oils of Commerce.** *Pharm. Journ.* [3] *XXII*, 877 (*23rd April*, 1892.)

Portion of a paper on "Recent donations to the Museum," read before the Pharmaceutical Society. Drawing attention to the unsatisfactory state of our knowledge of the Eucalyptus oils of commerce.

HOMEYER (I.)—**The Essential Oil of Eucalyptus globulus.** *Archiv. Pharm.* [3], *V*, 293. *Journ. Chem. Soc.*, *XXIX*, 244. *Pharm. Journ.* [3] *VI*, 786.

Finds 20-25 per cent. of cymene in it, and also a terpene boiling at 150°-151°.

HOMEYER (J.)—[*See* "FAUST and HOMEYER," p. 27.]

HOWITT (A. W.)—**The Eucalypts of Gippsland.** *Trans. R. S. Vict.*, Vol. II, pt. I. 81.

Valuable for the local names and uses of timbers, apart from its purely botanical value.

JACKSON (J. R.)—**On the products of the genus Eucalyptus.** *Intellectual Observer*, *IX*, 241.

Notes on miscellaneous products, oils, mannas, timbers, &c. Allusion is chiefly made to *E. oleosa*, *E. globulus*, *E. viminalis*, *E. tetraptera*, *E. gigantea* (*obliqua*).

JAHNS (E.)—**Ueber Eucalyptol.** *Ber. der deutsch. chem. Ges.*, *XVII*, 2,941. *Journ. Chem. Soc.*, *XLVIII*, 394. *Pharm. Journ.* [3], *XV*, 615.

He believes that the Eucalyptol ($C_{12}H_{20}O$) obtained by Clöez (*Comptes Rendus*, 1870, *LXX*, 687), still contained terpenes, whilst that described by Faust and Homeyer (*Ber. der deutsch. chem. Ges.*, *VII*, 63) as being free from oxygen, was probably obtained from another species. Herr Jahns worked on oil obtained from *E. globulus* leaves distilled in Germany. He found that pure Eucalyptol appeared to correspond completely, chemically, and physically with cineol and cajeputol.

KINGZETT (C. T.)—**Nature's Hygiene: The hygienic influences of the Pine and Eucalyptus.** *Pharm. Journ.* [3], *VII*, 449, 547, 608.

LANDSBOROUGH (D.)—**Report on Australian and New Zealand plants grown on the East Coast of Arran (Scotland).** *Trans. Roy. Bot. Soc., Edin.*, *XVI*, 194.

Miscellaneous plants.

Australian and New Zealand trees in Arran. *Trans. Bot. Soc., Edin.*, *XVII*, 21. Arran (off western coast of Scotland) has a comparatively equable climate.

Notes on the cultivation of the following Eucalypts are given:—*E. alpina*, *E. globulus*, *E. Gunnii*, *E. coccifera*, *E. ficifolia*, *E. amygdalina*, *E. viminalis*, *E. polyanthema*, *E. cordata*, *var. urnigera*, *E. pauciflora*.

LYON (W. S.)—**Some notes on the genus Eucalyptus.** *3rd Biennial Rep., California State Board of Forestry,* 1890.

Chiefly deals with the planting of them in California. Special allusion is made to *E. corynocalyx* (Sugar Gum), *E. diversicolor* (Karri), *E. marginata* (Jarrah), *E. Gunnii* (White Swamp Gum).

MACEWAN (P.)—**Eucalyptus Oils.** *Trans. Brit. Pharm. Conf.,* 1885, 402. *Pharm. Journ.* [3], *XVI,* 272.

An attempt to answer the question, No. 279 of the "Blue list," "In what respects, other than cost, do the various commercial oils differ?" A valuable investigation of the various Eucalyptus oils found in commerce.

MAIDEN (J. H.)—A letter conveying a challenge to anyone to produce a natural honey containing five per cent. of Eucalyptol. *Chem. and Drugg., XXXIX,* p. 60, (11*th July,* 1891.)

Notes on Eucalyptus Oils. *Bulletin of Pharm. (Detroit, U.S.A.), V,* 461. *(Oct.* 1891.)

Scented or perfume oils; mallee oils; other Eucalyptus oils.

MAIDEN (J. H.)—[*See* GENERAL, p. 5.]

MAQUENNE (M.)—**Sur la composition de miel Eucalypté.** *Ann. Chem. Phys.* [6], 17, 495. *Journ. Chem. Soc., LVIII,* 122.

Account of Eucalyptus honey, prefaced with a recapitulation of the fabulous statements concerning its origin. The so-called Eucalyptus honey was submitted to a careful chemical and physical examination. Conclusion :—That it is a mixture of dextrose and levulose very near ordinary invert sugar, to which are added a small quantity of aromatic products, and a trace of gummy matter insoluble in alcohol.

MERCK (E.)—**Terpinhydrat aus Eucalyptusöl.** *Merck's Jahresbericht. Jan.,* 1892, p. 12.

Terpēne Hydrate from Eucalyptus Oil. *Archiv. der Pharmacie,* quoted in *Chem. and Drugg., XL,* 837. (11th June, 1892).

MOLONEY (A.)—**Sketch of the Forestry of West Africa.** (*Sampson Low,* 1887.)

At p. 224, is an account of experimental Eucalyptus plantations.

MUELLER (F. v.)—**On the Therapeutical value of Eucalyptus Oil.** *Australasian Med. Gaz., Sydney, Nov.* 15, and *Dec.* 15, 1883.

An account of the experience of medical practitioners throughout the world with Eucalyptus oil. Based on Schiff's work, see p 31. It contains a valuable bibliography.

NAUDIN (C. H.)—**Mémoire sur les Eucalyptus introduits dans la Région Mediterranéene.** *Annales Sc. Nat.* [6], *XVI*, 337. *Abstr. Pharm. Journ.* [3], *XIV*, 602.

Notes on the Eucalypts introduced into the Mediterranean region; botanical considerations; value of the trees for forestry purposes; description of those species which have attained the adult state in France and Algeria. The value of this fine and lengthy memoir is enhanced by the comprehensive bibliography it contains (chiefly of French publications), in regard to Eucalypts.

NOEL (M.)—**A paper on the means of testing the purity of Essential Oils.** *L'Union Pharmaceutique*, p. 103, (1887.) *Pharm. Journ.* [3], *XVII*, 803.

He states that Eucalyptus oil often contains a large proportion of oil of turpentine. In four samples examined by him, he found 20 per cent. or more of this adulterant.

PEARMAIN (T. H.)—[*See* "DAVIES and PEARMAIN," p. 27.]

POCKLINGTON (H.)—**The Microscope in Pharmacy; Eucalyptus globulus.** *Pharm. Journ.* [3], *III*, 990; *IV*, 549.

A useful histological study of the bark, leaves, &c.

RABUTEAU (A.)—**Recherches chimiques sur les feuilles de l'Eucalyptus globulus.** *Comptes Rendus, LXXV*, 1,031. *Abstract in Pharm. Journ.* [3], *III*, 463, *and Journ. Chem. Soc. XXVI*, 403.

Examination of leaves of *E. globulus* for a basic principle with negative result.

RAVERET-WATTEL.—**L'Eucalyptus. Rapport sur son Introduction, sa Culture, ses Propriétés, Usages, &c.**, Paris. *Bulletin de la Société d'Acclimatation*, 1871–2.

Deals with the species of Eucalyptus in cultivation in Europe and Algeria together with notes on the uses of other species, in addition. Cultural notes, timbers, essential oils, &c.

The Genus Eucalyptus; its acclimatisation and uses. *Pharm. Journ.* [3], *III*, 22, 43.

A full resumé of the foregoing.

REDFORD (A.)—[*See* GENERAL, p. 6.]

RENNIE (E. H.)—[*See* GENERAL, p. 6.]

SANTRA (P.)—**The Sanitary Influence of the Eucalyptus.** *Pharm. Journ.* [3], *VII*, 986.

Note, from the *Meteorological Magazine*, of hygienic results of the planting of *E. globulus* in Algeria.

SCHIFF (H.)—**Excerpts from Professor Hugo Schiff's Treatise on Eucalyptus Oil.** *Translated and Supplemented by Baron Mueller. Sydney, L. Bruck*, 1884.

SCHIMMEL & Co.—**Bericht von Schimmel and Co.** (Inhaber Gebr. Fritzsche), in Leipzig.

From October, 1890, also published in English, under the title of "Semi-Annual Report," issued in April and October of each year. Treats of essential oils almost exclusively, mainly with the results of scientific investigations.

Backhousia citriodora. April, 1888, October, 1888, April, 1889.
Ceratopetalum apetalum. (Coumarin in.) October, 1889.
Eucalyptol (*Cineol*) April, 1892.
Eucalyptus alba. October, 1891.
E. amygdalina. October, 1887, April, 1888, October, 1888, April, 1889, April, 1891.
E. Baileyana. April, 1888, April, 1889, April, 1891.
E. cneorifolia. See E. oleosa with which species it is sometimes confused.
E. dealbata. April, 1888, April, 1889.
E. dumosa. October, 1889, April, 1891.
E. globulus. October, 1887, April, 1888, October, 1888, April, 1889, October, 1889, April, 1891, April, 1892.
E. hæmastoma. April, 1888, April, 1890.
E. maculata var. citriodora. April, 1888, October, 1888, April, 1889, April, 1890, October, 1890, April, 1891, October, 1891, April, 1892.
E. microcorys. April, 1888, April, 1889, April, 1891.
E. odorata. April, 1889, October, 1889, April, 1890.
E. oleosa or cneorifolia. April, 1891, April, 1892.
E. rostrata. October, 1891.
E. Staigeriana. April, 1888, October, 1888, April, 1889.
Melaleuca acuminata. April, 1892.
M. Leucadendron. April, 1889.
" " *var. lancifolia.* April, 1892.
" " *uncinata.* April, 1892.

Sandalwood Oil, (West Australian), from *Santalum cygnorum.* October, 1887, April, 1891, October, 1891.
Santalum Preissii. April, 1891, October, 1891.

Besides these references to particular species, general observations are made in regard to Eucalyptus oil and Eucalyptol.

SCHULTZ (H.)—**Das Eucalyptus Oel, pharmakologisch und klinisch dargestellt.** *Bonn,* 1881.

SIMMONDS (P. L.)—(Abstractor.)—**Essential oils from the Genera Eucalyptus and Melaleuca, suitable for general application in the Arts.** *The Technologist, III,* 11.

An abstract of the catalogue of Victorian products at the London Exhibition of 1862.

SQUIRE (P. W.)—**A note on Eucalyptus Oil.** *Chem. and Drugg., XXXVII,* 380, 13*th September,* 1890.

Examination of a number of oils invoiced as "amygdalina." Tests applied:—(1.) Specific gravity. (2.) Rotation shown by a Zeiss polarimeter. (3.) Phellandren test.

STEARNS (R. E. C.)—**The Eucalyptus globulus in California.** *Western Lancet, I.,* 696; *Pharm. Journ.* [3], *III,* 603.

An account chiefly dealing with its medicinal properties.

STOCKWELL (G. A.)—**Eucalyptus Oil and Eucalyptol.** *Bulletin of Pharm* (Detroit, U.S.A.), V. 447 (*Oct.*, 1891).

Contains valuable information in regard to Eucalyptus oil—chiefly in regard to the Eucalyptol question.

STUART (T. P. Anderson.)—**On the so-called Eucalyptus Honey.** *Pharm. Journ.* [3.], *XXI*, 513.

Exploding the fallacy that honey containing a high percentage of Eucalyptol is a natural product.

TAYLOR (T.)—**Report on the Antiseptic Properties of Eucalyptus Oil.** *U. S. Agriculture Report*, 1876, p. 82; *Pharm. Journ.* [3], *VIII*, 545.

Results of a number of practical tests by the microscopist to the Department of Agriculture.

THOMS (Dr.)—**Oil of Eucalyptus maculata, var. citriodora.** *Pharm. Centralh.* 13*th August*, 1891, p. 469; *Pharm. Journ.* [3], *XXII*, 165.

Expresses the opinion that the oil possesses no therapeutic properties not equally shared by citronella oil.

TRISTANI (M.)—**El Compilator Medico.** Janv., 1865.

The first research in Europe on the properties of *Eucalyptus globulus*, according to Flückiger and Hanbury (*Hist. de Drogues*, *I*, 513).

VIDAL (M.)—**Eucalyptus as a Vermifuge.** *Pharm. Journ.* [3], *V*, 474.

Note on one case brought before the Paris *Société de Pharmacie.*

VOIRY (R.)—**Sur l'essence d'Eucalyptus globulus.** *Compt. Rend.*, *CVI*, 1,419; *Journ. Soc. Chem. Ind.*, *VII*, 516, 585, 764; *Bull. Soc. Chim.*, *L*, 106.

The author describes a process for the preparation of pure Eucalyptol.

WALLACH (O.)—**Ueber die Bestandtheile einiger ätherischer Oele.** (Mittheilung aus dem chemischen Institut der Universität Bonn, 1884.) *Annalen der Chemie*, *CCXXV*, 314.

The essential oils of cajeput, bergamot, lemon, orange-peel and Eucalyptus are dealt with.

A Summary of Wallach's work on the essential oils. *Pharm. Journ.* [3], *XVIII*, 480, 521; abstr. from *Pharm. Zeitung* of 10th Sept. and 15th Oct., 1887.

Valuable for the light it throws upon the constitution of Eucalyptus oils.

WALLACH (O.) and GILDEMEISTER (E.)—**Zur Kenntniss der Terpene und der ätherischer Oele.** *Annalen der Chemie*, *CCXLVI*, 265 (1888); *Journ. Chem. Soc.*, *LIV*, 1,205.

WILLIAMS (W. L.)—**Note on Oil of Eucalyptus.** *Chem. and Drugg.*, *XL*, 412.

Result of experiments with Eucalyptus oil, illustrating the law of "compensation" as applied to the effect of bodies on polarized light.

WITTSTEIN (G. C.)—[*See* GENERAL, p. 7.]

WOOLLS (W.)—[*See* GENERAL, p. 7.]

IX.—Perfumes and Essential Oils other than Eucalypts.

(See also " Exhibition Literature ":—Melbourne, 1861, p. 8 ; Dublin, 1865, p. 9 ; Melbourne, 1866, p. 9.)

ARCHER (W.)—**On the indigenous plants of Tasmania which may possibly be available for the manufacture of perfumery.** *Proc. R. S., Tas., Dec.*, 1860.

BANCROFT (T. L.)—[*See* EUCALYPTUS, p. 25.]

BOSISTO (J.)—*See* EUCALYPTUS, p. 26.]

GLADSTONE (J. H.)—*See* EUCALYPTUS, p. 28.]

HOLMES (E. M.)—**Oil of Sandalwood.** *Pharm. Journ.* [3], *XVI*, 819.
Exocarpus latifolius, Fusanus spicatus, F. persicarius, Eremophila Mitchelli are dealt with.

JACKSON (J. R.)—**Odorous woods.** *Chem. and Drugg.*, 8th August. 1891.
Takes cognisance of the following Australian woods which possess odours of one sort or another:—*Fusanus spicatus, Fusanus persicarius, Eremophila Mitchelli, Myoporum platycarpum, Alyxia buxifolia, Acacia homalophylla.*

MAIDEN (J. H.)—[*See* GENERAL, p. 5.]

MUELLER (F. v.)—*See* GENERAL, p. 6.]

PETERSEN (A.)—**Contribution to the knowledge of Sandalwoods.** *Pharm. Journ.* [3], *XVI*, 757.
Fusanus acuminatus, R. Br., is dealt with amongst others.

RIMMEL (E.)—**The perfumery trade as represented in the International Exhibition (1862).** *The Technologist, III*, 169.
Includes a few comments on the Australian perfume exhibits.

Sandalwood Oil.—Editorial note and a letter on the Western Australian product (Simpson, G.) *in Chem. and Drugg.*, 28*th March* and 4*th April*, 1891.

SCHIMMEL & Co.—[*See* EUCALYPTUS, p. 32.]

SIMMONDS (P. L.)—**Essential Oils from Indigenous Plants of Victoria, adapted for use in Medicine, Perfumery, &c.** *The Technologist, V*, 322.
Chiefly taken up with an account of the oil of *Atherosperma moschata.*
[*See* EUCALYPTUS, p. 32.]

TEPPER (J. G. O.)—**Probable Curative Properties of *Melaleuca uncinata.*** *Proc. R. S., S.A., III*, 174.
Use of crushed leaves in "violent catarrh."

WITTSTEIN (G. C.)—[*See* GENERAL, p. 7.]

X.—Gums.

(See also "Exhibition Literature":—London, 1851, p. 8; Melbourne, 1861, p. 8; Dublin, 1865, p. 9 ; Colonial and Indian, 1886, p. 10; Melbourne, 1888, p. 11.)

ARCHER (W.)—[*See* TIMBERS, p. 45.]

BLACKETT (C. R.)—**Occurrence of Bassora Gum in Cycadeæ.** The gums of *Macrozamia Fraseri* and *M. Miqueli* were examined. *Chem. and Drugg.* (*Australian Suppl.*), 1882. *Pharm. Journ.* [3], *XIII*, 104.

GREY (G.)—[*See* FOODS, p. 13.]

HECKEL and SCHLAGDENHAUFFEN.—[*See* KINOS, p. 39.]

HOLMES (E. M.)—**Acetic Acid in Sterculia Gum.** *Pharm. Journ.* [3], *XX*, 560; also Maiden (J. H.) *Pharm. Journ.* [3], *XX*, 868.

HOPFF (Dr.)—**On Australian and Turkey Gums.** *Pharm. Journ.*, *VII*, 588.

An Acacia gum is probably referred to.

MABEN (T.)—**Notes on some gum samples.** *Pharm. Journ.* [3], *XX*, 717. Takes cognizance of Wattle Gum, p. 719.

MAIDEN (J. H.)—**On the Gum of the Leopard-tree** (*Flindersia maculosa*). *Proc. Aust. Assoc. Adv. Sci.*, *II*, 379.

Observations on the Gums yielded by two species of *Ceratopetalum*. *Proc. Aust. Assoc. Adv. Sci.*, *II*, 381.

On Cedar Gum (*Cedrela australis*). *Proc. Linn. Soc.*, *N.S.W.* [2], *IV*, 1,047.

Sterculia Gum: Its similarities and dissimilarities to Tragacanth. Occurrence of Pararabin in Sterculia Gums. *Pharm. Journ.* [3], *XX*, 381.

Gums and a resin, produced by Australian Proteaceæ. *Proc. R. S.*, *S.A.*, 1889, p. 54.

Macrozamia (*Encephalartos*) **Gum. Including a discussion of the question, What is Bassorin?** *Chem. and Drugg. of Australasia*, *Jan.*, *Feb.*, 1890.

The Chemistry and Commercial possibilities of Wattle Gum. *Pharm. Journ.* [3], *XX*, 869, 980.

On two unrecorded Exudations from the Leguminosæ. *Proc. Linn. Soc.*, *N.S.W.* [2].

1. A Kino from the "Native Wistaria," *Milletia (Wistaria) megasperma.*
2. A gum from "The Barrister" *(Mezoneuron Scortechinii).*

On Panax Gum. *Proc. Linn. Soc.*, *N.S.W.* [2].

The following gums are described:—*P. dendroides* var. *angusta*, *P. Murrayi*, and *P. elegans.*

MAIDEN (J. H.)—[*See* GENERAL, p. 5, AND EUCALYPTUS MANNAS, &c., p 42.]

MUELLER (F. v.)—[*See* GENERAL, p. 5.]

RIDEAL (S.) and YOULE (W. E.)—**Gum Arabic and its modern substitutes.** *Journ. Soc. Chem. Ind.*, *X*, 610.
Takes cognizance of the Wattle Gums.

YOULE (W. E.)—[*See* "RIDEAL and YOULE."]

XI.—Resins.

(See also "Exhibition Literature":—London, 1851, p. 8; Melbourne, 1861, p. 8; Dublin, 1865, p. 9; Colonial and Indian, 1886, p. 9; Melbourne, 1888, p. 11.)

BAMBERGER (M.)—**The Analysis of Resins and Balsams.** *Monatsh.*, 1890, *XI*, 84–6. *Journ. Soc. Chem. Ind.*, *IX*, 659.
Gives methyl numbers of "Red and Yellow Xanthorrhœa Resins."

BENNETT (G.)—[*See* GENERAL, p. 2.]

BENNETT (K. H.)—**On** *Myoporum platycarpum*, **a resin-producing tree of the interior of New South Wales.** *Proc. Linn. Soc.*, *N.S.W.*, *VII*, 349.

BOLLEY (P.)—**Amount of picric acid obtained from Botany Bay resin,** *(Xanthorrhœa hastilis)*. *Chem. Gaz.*, 1859, 136.

FLEURY (G.)—*Grevillea robusta* **Gum Resin.** *Journ. Pharm.* [5], *IX*, 479. *Journ. Chem. Soc.*, *XLVIII*, 238.
Investigation of a gum-resin found on some trees of *Grevillea robusta*, cultivated in Algeria.

GMELIN.—**The Yellow Resin of Botany Bay.** *Gmelin's Handbook of Chemistry*, *XVII*, 386, where a full bibliography of the subject is given.
Resin of *Xanthorrhœa hastilis* (grass-tree gum).

HIRSCHSOHN (E.)—**Scheme for the recognition of the more important Resins, Gum-resins, and Balsams.** *Pharm. Journ.* [3], *VIII*, 389. From *Pharmaceutische Zeitschrift für Russland*, *XVI*, 81.
Deals with three *Xanthorrhœa* resins.

JOHNSTON (J. F. W.)—**Acaroid Resin (Botany Bay Resin, Yellow Gum).** "On the Constitution of the Resins." *Part II*, *Phil. Trans.*, 1839, p. 292.

KITE (C.)—**An account of the medicinal effects of the resin of Acaroides resinifera or yellow resin from Botany Bay.**
In his "Essays and Observations Physiological." London, 1795.

LIGAR (C. W.)—**Grass Tree.** *Trans. R. S. Vict.*, *Vol. VI*, 1861–4, p. 145.
Grass-tree gum is incidentally dealt with.

MAIDEN (J. H.)—**On Grass-tree Gum.** *Proc. Linn. Soc., N.S.W.* [2], *V*, 429.

Australian and Tasmanian Sandarach. *Proc. R. S. Tas.*, 1889, p. 55.

Showing the identity of the resin of the Australian species of *Callitris* with the sandarach of commerce.

Spinifex Resin. *Proc. Linn. Soc., N.S.W.* [2], *IV*, 639.

A resin from North-west Australia, supposed to be obtained from Spinifex (*Triodia*) roots, and used by the blacks as a cement.

The Resin of Myoporum platycarpum. *Journ. Chem. Soc., LV*; 665.

A preliminary chemical investigation.

Notes on the Resins of two Queensland Species of Araucaria. *Proc. R. S., Qd., VI, Part I*, 1889.

A. Bidwilli and *A. Cunninghamii.*

On the Oleo-resin of Canarium Muelleri, Bailey, together with notes on Manila Elemi. *Proc. R. S., Qd., VIII, Part III.*

The exudation of *C. Muelleri* is a simple oleo-resin, quite different in character to Manila elemi, usually attributed to *C. commune.*

On the exudations yielded by Australian species of Pittosporum. *Proc. Aust. Assoc. for Adv. Sc., IV.*

Principally deals with the composition of the gum-resins of *P. undulatum and P. bicolor.*

[*See* also EUCALYPTUS MANNAS, &c., p. 42.]

MAISCH (J. M.)—**Notes on the Xanthorrhœa Resins.** *Amer. Journ. Pharm., May*, 1881. *Pharm. Journ.* [3], *XI*, 1,005.

MILLS (E. J.) and MUTER (J.)—**On bromine absorptions.** *Journ. Soc. Chem., Ind., IV*, 96.

Resins of various species of *Xanthorrhœa* are experimented with amongst others.

MOREL (J.)—**Resin of Callitris Preissii.** *Pharm. Journ.* [3], *VIII*, 1,025.

MUELLER (F. v.)—[*See* GENERAL, p. 5.]

MÜLLER (H.)—[*See* " RUE (DE LA) and MÜLLER."]

MUTER (J.)—[*See* " MILLS and MUTER."]

PHILLIP (A.)—**The Voyage of Governor Phillip to Botany Bay; with an account of the Establishment of the Colonies of Port Jackson and Norfolk Island; compiled from authentic papers which have been obtained from the several Departments. To which are added: The Journals of Lieut. Shortland, Watts, Ball, and Capt. Marshall; with an Account of their New Discoveries, &c.** (4*to., London*, 1789).

Account of the "red and yellow gum-trees" (*Eucalyptus* and *Xanthorrhœa. hastilis*), pages 59 and 60; Dr. Blane's account of the good effects of the yellow gum, p. 294.

REDFORD (A.)—[*See* GENERAL, p. 6.]

RUE (W. DE LA) AND MÜLLER (H.)—**On the resin of *Ficus rubiginosa*, and a new homologue of Benzylic Alcohol.** *Phil. Trans. Vol.* 150, 43. (1860). *Journ. Chem. Soc. XV*, 62, (1862). *Watts' Dict.*, *II*, 646, *and V*, 645. *(Sycocerylic acid, &c.) See Gmelin, XVII*, 43, *for fuller bibliography.*

An exhaustive chemical research on a sample of dried latex from the Manning River. A resin, called by the authors Sycoretin, is found in it, and this resin and its derivatives are described at length.

SIMMONDS (P. L.)—**The gums and resins of commerce.** *Journ. Soc. Arts*, *IV*, 18.

A *Xanthorrhœa* resin of Western Australia is dealt with.

The resins, gums, and gum-resins of Victoria. *The Technologist*, *V*, 227.

Compiled from the Victorian Catalogue of Exhibits, Dublin Exhibition, 1865. [*See* p. 9.]

Botany Bay or Grass-tree Gum. *The Technologist*, *VI*, 523, *Pharm. Journ.* [2], *VIII*, 78.

Deals chiefly with the production of illuminating gas from a Western Australian species.

STENHOUSE (J.)—**Resin of** *Xanthorrhœa*. *Tas. Journ.*, *Vol. II*, 1846, p. 360. Abstract of following.

Observations on the resin of the *Xanthorrhœa hastilis*, **or Yellow Gum Resin of New Holland.** *Chem. Soc. Mem.*, *III*, (1845–8), 10–12. *Phil. Mag.*, *XXVIII*, 440, *June*, 1846. *Pharm. Journ.*, *VI*, 88.

The first thorough chemical examination of this resin, and the basis of subsequent statements concerning it.

THOMSON (T.)—**Of Botany Bay Resin.** *Chemistry of Organic Bodies. Vegetables* (1838), p. 532. Quotes Duncan's *New Dispensary*, p. 60, *and Lichtenstein*, *Crell's Journ.*, 1799, *II*, 242.

TROMMSDORFF—**Volatile Oil of Botany Bay Resin.** (*Xanthorrhœa hastilis*). *Taschenberg*, 1826, 9. *Gmelin*, *XIV*, 362.

WHITE (J.)—[*See* KINOS, p. 40.]

ZEYER (E.)—**Resin in bark of** *Atherosperma moschata*. *Pharm. Viertelj. X*, 517. *Abstr. in Gmelin's Handbook.*

XII.—Kinos.

(See also "Exhibition Literature,":—Melbourne, 1861, p. 8; Dublin, 1865, p. 9; Colonial and Indian, 1886, p. 10; Melbourne, 1888, p. 11.)

BANCROFT (J.)—[*See* DRUGS, p. 19.]

BOSISTO (J.)—[*See* EUCALYPTUS, p. 26.]

DAMPIER (W.)—**A new voyage round the world, describing particularly, the Isthmus of America, &c., &c., New Holland, &c.; their soil, rivers, harbours, plants, fruits, animals, and inhabitants.** *Third edition*, 3 *vols.* (*London*, 1698–1709).

Vol. I, p. 463. Notes on "Dragon trees" (Eucalypts), exuding kino. Vol. III, contains some plates of Australian plants.

Eucalyptus products. *Pharm. Journ.* [3], *XVI*, 898.

Kinos are here referred to.

GRIMWADE (E. N.)—**A Kino from** *Eucalyptus maculata.* *Pharm. Journ.* [3], *XVI*, 1,102.

A chemical examination.

HECKEL (E.) ET SCHLAGDENHAUFFEN (FR.)—**Sur quelques gommes d'Acacia (dealbata) et d'Eucalyptus (leucoxylon and viminalis.)** *Le Naturaliste, 2nd. Série*, No. 80, p. 151, (1*st July*, 1890.)

Contains analyses of a gum and two kinos, obtained from trees growing in the South of France.

HUDSON (F. J.)—**Kino of** *E. rostrata* **as a remedy in diarrhœa.** *Zeitschr., des oesterr. Apoth. Ver.*, 1883, 220.

KREMEL (A.)—Eucalyptus Kino is dealt with amongst others. He fails to find the *Kinoin* of Etti, (*Amer. Journ. Pharm.*, 1872, 6,000.) *Pharm. Post.*, 1883. No. 11.

LAUTEN (W.)—**The gums of Eucalypts and Angophoras.** *Proc. R. S., Qd.* 1891.

MAIDEN (J. H.)—**The examination of Kinos as an aid in the diagnosis of Eucalypts.** *Part I.* The Ruby Group. *Proc. Linn. Soc., N.S.W.* [2], *IV*, 605. *Part II.* The Gummy Group [2], *IV*, 1 277. *Part III.* The Turbid Group [2], *VI*, 389.

The groups are primarily divided according to the behaviour of the Kinos in water and alcohol.

Botany Bay or Eucalyptus Kino. *Pharm. Journ.* [3], *XX*, 221, 321.

Comprises the following papers:—1, Commerce and uses of Eucalyptus Kinos. 2, Collection of Eucalyptus Kinos. 3, Use of the word "gum" or "gum-tree" in Australia. 4, Classification of Eucalyptus Kinos. 5, Definition of the terms "Botany Bay Kino" or "Australian Kino." 6, Gelatinization of tincture of Kino.

Liquid Kino. *Proc. R. S., Vict.*, 1889, 82.

The liquid exudation of *Angophora intermedia.*

Angophora Kinos. *Proc. Linn. Soc. N.S.W.* [2], *V.*

Including analyses of the solid kinos of *A. intermedia* and *A. lanceolata.*

MAIDEN (J. H.)—[*See* GENERAL, p. 5, and EUCALYPTUS MANNAS, &c., p. 42.]

PHILLIP (A.)—[*See* RESINS, p. 37.]

REDWOOD (T.)—**On the gelatinization of tincture of Kino.** *Pharm. Journ.*, I, 399.

Eucalyptus Kino is referred to in general terms.

SCHLAGDENHAUFFEN (F.)—[*See* "HECKEL and SCHLAGDENHAUFFEN."]

SUTHERLAND (J.)—**On the medicinal properties of the Red Gum of Australia.** *The Technologist, III*, 69.

A brief essay on the chemical behaviour and therapeutic effects of the Kino of *Eucalyptus rostrata.*

WHITE (J.)—**Journal of a voyage to New South Wales, with sixty-five plates of nondescript animals, &c., curious cones of trees, and other natural productions.** *4to, London*, 1790.

Kino for medicinal use, 178; Yellow resin (*Xanthorrhœa hastilis*), 179; native vegetables, 196; Peppermint tree (*Eucalyptus piperita*), with figure, 226; sweet tea plant (*Smilax glycyphylla*), with figure, 230; the "red-gum" tree (*Eucalyptus resinifera*), with figure, and notes on its medicinal value, 231; the "yellow resin tree" (*Xanthorrhœa*), with description and account of its properties, 235; figure of part of caudex of *Xanthorrœa* cemented with resin, 249.

WIESNER (T.)—**Eucalyptus Gum.** *Pharm. Journ.* [3], *II*, 102. From *Zeitschr. d. allg. Oest. Apotheker. Vereines.* Contains notes on the following Kinos:—

E. corymbosa, Sm.
E. globulus, Labill.
E. rostrata, Schlecht.
E. leucoxylon, F. v. M.
E. corynocalyx, F. v. M.
E. citriodora, Hook.
E. maculata, Hook.
E. calophylla, R. Br.
E. amygdalina, Labill.
E. piperita, Sm.
E. pilularis, Sm.
E. fabrorum, Schlecht.
E. fissilis, F. v. M.
E. gigantea, Hook.
E. viminalis, Labill.
E. obliqua, L'Hér.

XIII.—Eucalyptus Mannas and Lerp.*

(A work on Australian Mannas and allied substances, by J. H. Maiden and W. W. Froggatt, is almost ready for publication.)

Allen (A. H.)—**Commercial Organic Analysis** (J. and A. Churchill), Vol. *I*, (1885) p. 191, Glucoses (Eucalyptose, Eucalyn); p. 192, Saccharoses (Melitose, Eucalypton; Melezitose).

Anderson (T.)—**On a new kind of manna from New South Wales.** *Edin. New Philosoph. Journ.*, July, 1849. Reprinted in *Papers and Proc. R. S., V. D. Land*, Vol. I, 1851.

This gives an account of lerp received from the north-western part of Victoria which he analysed.

Ueber eine neue Mannasorte aus Neu Süd Wales. (Vom Verfasser mitgetheilt). *Journ. für prakt. Chemie.*, *XLVII*, 449. A translation of the preceding.

Berthelot (M.)—**Sur quelques matières sucrées.** *Compt. Rend.*, *XLI*, 392 (1855). Examination of an Australian manna received from the Paris Exhibition of 1855. The author examines the Melitose of Johnston (*see* p. 42), and from it obtains an unfermentable sugar called Eucalin (Eucalyne).

The manna examined by Berthelot was probably that exhibited by Mrs. (afterwards Lady) John Hay, then of Welaregong, Upper Murray, and was probably obtained from *Eucalyptus Gunnii.*

Sur quelques matières sucrées. *N. Ann. Chim. Phys.*, 46, 66.

A copy of the preceding.

Ueber einige zuckerartige Substanzen. *Journ. für prakt. chem.*, 67, 230.

A translation of the preceding. *See* also *Chem. Centr.*, 1855, 69.

Chem. Organ., Paris, 1860.

Deals with Melitose at *II*, 260, and Eucalin at *II*, 250.

Beveridge (P.)—**On the aborigines inhabiting the great Lacustrine and Riverine depression of the Lower Murray, Lower Murrumbidgee, Lower Lachlan, and Lower Darling.** *Proc. R. S., N. S. W.*, *XVII*, 63.

Contains notes on the "Laarp" harvest.

Dobson (T.)—**On Laap or Lerp, the cup-like coverings of Psyllideæ found on the leaves of certain Eucalypti.** *Proc. R. S., V. D. Land*, Vol. *I*, pt. *III*, 235 (1851) (with two plates). Description and drawings of several species of Psyllideæ found in Tasmania.

Erichson.—**Description of two Australian species of Psylla.** *Archives*, 1842, 286.

Flückiger (F. A.)—*Vierteljahresschr.* de Wittstein, 1868, *XVII*, 161.

A chemical investigation of Lerp.

Lerp Amylum. *Watts' Dict.*, *VII*, 2nd Suppl., 733.

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* This section might, from one point of view, be permitted to follow "Foods." It has, however, been placed with the exudations (Gums, &c.)

FLÜCKIGER (F. A.) and HANBURY (D.)—*Histoire des Drogues*, II, 59.
"La Manne d'Australie" and "La Manne de Lerp d'Australie."

GMELIN.—**Chemistry.** *XV*, 296.
Articles :—Melitose, Eucalin.

HANBURY (D.)—**Minor notes on the materia medica of the International Exhibition (London, 1862).** *Pharm. Journ.* [2], *IV*, 107.
A description of Eucalyptus manna, and Australian Insect manna called Lerp, is given amongst references to other substances.

HOOPER (D.)—**Chemical notes on Mannas.** *Druggists' Circular*, 4, 1891 and brief abstract in *Bulletin of Pharmacy*, *V*, 117.
Eucalyptus manna is referred to amongst others.

JOHNSTON (J. F. W.)—**On the sugar of the Eucalyptus.** *Mem. Chem. Soc.*, *I*, 159. (1843).
Read before the Chemical Society, 20th December, 1842.

On the sugar of the Eucalyptus. *Phil. Mag.* [2nd ser.], *XXIII*, 14. (1843). Examination of a manna from Tasmania. Same as the preceding.

Ueber den Zucker von Eucalyptus. *Journ. für prakt. Chemie.* *XXIX*, 485.
A translation of the preceding.

LANDERER (X.)—**On the varieties of manna not produced by the Ash.** *Pharm. Journ.*, *XIII*, 411. Mentions "Manna Australis produced by Eucalyptus resinifera."

M'COY (F.)—*Cicada mœrens.* "The great black or manna cicada." *Prodromus of the Zoology of Victoria.* Decade *V*, Plate 50.
Gives a life history of Cicada mœrens, and states that Eucalyptus manna is formed by this cicada.

MAIDEN (J. H.)—**Report on the Vegetable Exudations collected by the Elder Exploring Expedition.** *Proc. R. S., S. A.* 1892.
That of *Myoporum platycarpum* proved to be identical in composition with the Manna of Commerce yielded by the Ash. Gums of an *Acacia* and *Brachychiton*; resins of *Callitris* and *Xanthorrhœa*, and kinos of *Eucalyptus* are also dealt with.

MUELLER (F. v.)—**Eucalyptographia.** Decade *X*, p. 464.
Under *Eucalyptus viminalis* are records of observations on manna-producing insects by authorities of varying reliability.

MUNDY (LIEUT.-COL.)—*Our Antipodes*, 79 (3rd ed., p. 176).
An account of collecting manna at Bathurst, N.S.W.

PALMER (E.)—**A description of manna found on the leaves of** *Eucalyptus terminalis. Proc. R. S., N.S.W.*, 1883, 98.

PASSMORE (F. W.)—**The carbohydrates of manna from** *Eucalyptus Gunnii*, **Hook., and of Eucalyptus honey.** *Pharm. Journ.* [3], *XXI*, 717.

RAY (J.)—**Correspondence of John Ray.** Letters from John Ray to Dr. Robinson and reply *re* the formation of Manna by cicadas in Italy, Sept., 1685. *Ray Society*, 1848, 176.

ROBINSON (DR.)—[*See* " RAY."]

SCOTT (J.)—**Revision of the British Museum collection of Psyllidæ.** *Trans. Ent. Soc., London*, 1882. 449.

Several species from Tasmania are re-described in this paper.

STOKES (J. L.)—**Discoveries in Australia.** At p. 482, Vol. II, will be found Surgeon Bynoe's account of his observations on Cicadas and Manna. *See* also I, 286.

Bynoe states that a species of cicada plentiful on the North Coast of Australia does produce manna.

TEPPER (J. G. O.)—**Remarks on the Manna or Lerp insect of South Australia.** *Journ. Linn. Soc.*, (Zoology) *XVII*, p. 109, (1883.)

A general account of the formation of Lerp, and its formation in South Australia.

THOMSON (T.)—**Chemistry of Organic bodies. Vegetables.** At p. 642 is an account of Australian Manna.

WALKER (F.)—**British Museum Catalogue, Homoptera, 1851, p. 910.** Contains description of Australian species of Psylla *(Livia longipennis.) Insecta Saunderi, III*, 1855.

Description of Australian species of Psylla in Saunders' collection.

WEST (T.)—**A brief description of a singular insect production found in some parts of Australia.** *Sydney Magazine of Science and Art, I*, 75, 1858.

An account of Lerp or Laap.

WOOSTER (W. H.)—**How the Lerp Crystal Palace is built.** *Journ. Micros. Soc. Vict.*, Vol. I, No. 4, p. 91, (1882), (1 plate.)

Observations on a Victorian species of Psylla which he watched building its covering under the microscope.

References to Australian Mannas will also be found at :—

1. *Archiv. der Pharm.*, 196-7, (1872.)
2. *Yearbook of Pharmacy*, 1871, 188.

XIV.—Dyes.

(See also "Exhibition Literature," Melbourne, 1866, p. 9.)

FLÜCKIGER (F. A.)—**Australian Kamala.** *Archiv. de Pharmacie* 230, *I*, 2 (1892). Abst. in *Pharm. Journ.* [3], *XXII*, 894, and *Chem.* and *Drugg. XL*, 843.

Examination of the powder on the Capsules of *Mallotus phillipinensis* for ash. Sample obtained from the Richmond River, N.S.W.

MAIDEN (J. H.)—[*See* GENERAL, p. 5.]

MUELLER (F. v.)—[*See* GENERAL, p. 5.]

RENNIE (E. H.)—**The colouring matter of** ***Drosera Whittakeri.*** *Journ. Chem. Soc.*, *LI*, 371.

The colouring matters believed to be derivatives of a methylnaphthaquinone.

Proc. R.S., *S.A. X*, 72.

A second paper on the above subject.

On the colouring matter of *Drosera Whittakeri. Proc. Aust. Assoc. Adv. Sci.*, *II*, 398.

ROSOLL—**Title?** *Monatshefte*, *V*, 94. Abstract in *Pharm. Journ.* [3], *XIV*, 967.

Investigation into the yellow colour of the flower-heads of *Helichrysum bracteatum.* He finds it to be a hitherto undescribed quinone-like substance, which he has named *Helichrysin.*

SCHUNCK (E.)—**Chlorophyll from** ***E. globulus.*** *Chem. News*, *XXXI*, 32. *Journ. Chem. Soc.*, *XXXVIII*, 894.

XV.—Tans.

(See also "Exhibition Literature," Melbourne, 1861, p. 8; Melbourne, 1866, p. 9; Melbourne, 1888, p. 11.)

BROWN (J. E.)—**Report on Cultivation of Wattles.** (*South Australia; Parliamentary paper No.* 179, *of* 1884.)

Deals fully with their cultivation, and also with revenue and expenditure.

BROWN (J. E.)—[*See* GENERAL, p. 2.]

CUNNINGHAM (P.)—[*See* GENERAL, p. 3.]

DOUSSA (A. v.)—**Wattles and Wattle Cultivation.** *Garden and Field*, *Adelaide*, *Dec.*, 1891.

Lecture on the above, chiefly with respect to *Acacia pycnantha.*

GUNN (R. S.)—**Notes on the Acaciæ of Tasmania.** *Tas. Journ.*, *III*, (Part 1), 1846, p. 5.

Includes miscellaneous economic botany notes, but chiefly in regard to Wattle barks.

Lyon (W. S.)—**Wattles and Wattle-planting in California.** *3rd Biennial Rep. Cal., State Board of Forestry,* 1890.

A valuable contribution to the subject of Wattle acclimatisation.

Maiden (J. H.)—**On some New South Wales Tan substances.** Parts I—V. *Proc. R.S. N.S.W., XXI,* 27, 82, 181, 250; *XXII,* 259.

A large number of barks, leaves, and kinos belonging to various genera are analysed.

Wattles and Wattle-barks; being hints on the conservation and cultivation of Wattles, together with particulars of their value. 1st edition, 1890, pp. 41, 7 illustrations; 2nd edition, 1891, pp. 79, 10 illustrations. *Roy. 8vo., Govt. Printer, Sydney.*

Mitchell (J.)—**On the export and consumption of Wattle-bark, and the process of tanning.** *Papers and Proc. R.S. Tas., Vol. I,* p. 219, 1854.

Mueller (F.)—**Notes on an Australian species of Sumach.** *Journ. Vict. Pharm. Soc., I,* 42, (1858.)

Wattle Bark.—**A new material for tanning from New South Wales. Extract of Mimosa bark.** *Journ. Arts and Science, V,* 262.

(Report of Committee); Repert. Arts and Manuf. [2], *XLV,* 337, (1824.)

Report of the Wattle-bark Board of Inquiry, 1878. *Govt. Printer, Melbourne,* 1878, *fcp.,* pp., 66.

Contains all the evidence on which the report was based.

Report of the Board of Inquiry, together with a statement showing the profit to be derived from the systematic cultivation of Wattles.* (*Melbourne,* 1878. *8vo.,* pp. 27.) Reprinted 1892.

An abridgment of the preceding.

Wattle-bark, known in Commerce as Mimosa bark. *Ann. Rep. of U.S. Commissioner of Agriculture,* 1878, 507.

Account of the Victorian Wattle-bark Report, together with miscellaneous information in regard to tanning materials.

XVI.—Timbers.

(See also "Exhibition Literature," London 1851, p. 8; Paris, 1855, p. 8; Melbourne 1861, p. 8; London, 1862, p. 8; New Zealand, 1865, p. 9; Melbourne, 1866, p. 9; Paris, 1867, p. 9; Sydney, 1870, p. 9; Philadelphia, 1876, p. 9; Sydney, 1879, p. 10; Melbourne, 1880, p. 10; Calcutta, 1884, p. 10; Colonial and Indian, 1886, p. 10; Adelaide, 1887, p. 10; Melbourne, 1888, p. 11; New Zealand, 1889, p. 11.

Archer (W.)—**Notes on the Vegetable Products of Tasmania, at the International Exhibition of 1862.** *The Technologist, III,* 1.

Almost exclusively deals with timbers, but fibres, gums, &c., are briefly touched upon.

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* Reprinted as Appendix No. XIII, 5th Progress Report, Victorian Royal Commission on Vegetable products.

BAILEY (F. M.)—**Queensland woods, with a brief popular description of the trees, their distribution, qualities, uses of timbers, &c., &c.** Edition for the Colonial and Indian Exhibition, 1886, pp. 86 ; edition for the Melbourne Exhibition, 1888, 123 pp., *Warwick and Sapsford, Brisbane.*

Indispensable to the student of Colonial timbers.

BALFOUR (J. M.)—**Results of a series of experiments on the strength of New Zealand and other Colonial woods.** Forms Appendix C of the *Report of the New Zealand Exhibition*, 1865.

New South Wales timbers are dealt with at p. 485.

BARTON (G. B.)—[*See* GENERAL, p. 2.]

BIDWILL (H.)—**New species of Araucaria from New South Wales.** *Tas. Journ.*, 1842, 404.

BRACE (E. J. C.)—**The formation and management of Eucalyptus plantations.**

Forestry and forest products ; Prize essays of the Edinburgh Forestry Exhibition, 1884, p. 241.

CALDER (J. E.)—**The Woodlands of Tasmania.** *Journ. Roy. Col. Inst.*, 1873–4.

CAMPBELL (F. A.)—**Experiments on the tensile strength of a few of the Colonial timbers.** *Proc. R. S. Vict.*, *XVI*, 6.

Eucalyptus obliqua.
„ globulus.
„ macrorrhyncha.
„ rostrata.
„ siderophloia.
„ sp.
Acacia melanoxylon.
Cedrela australis.

Experiments on the hardwoods of Australia. *Proc. R. S. Vict.*, *XIX*, 106.

Contains a list of previous researches on the strength of Australian timbers, and also a table giving condensed information in regard to some of his own researches.

The want of a uniform system in experimenting upon timber. *Proc. R. S. Vict.*, *XXIII*, 244.

Draws attention to certain data in regard to timber which should always be procured before tests with it are entered upon, and points out that it is frequently impossible to make use of researches by reason of the paucity of detail of experiment supplied.

CHAMIER (G.)—**Australian timber ; Karri** *(Eucalyptus diversicolor)*. *8vo.* 8 pp. *J. H. Sherring, and Co., Adelaide, n.d.*

CHRISTY (F. C.)—**Paper upon Colonial timber trees, and some European trees which have been proved to be suitable to the Colony of Victoria.** *Proc. R. S. Vict., X,* 47.

Scattered notes on some Australian timbers.

CUNNINGHAM (P.)—[*See* GENERAL, p. 3.]

DENISON (W. T.)—**Dr. Motherwell's analysis of certain woods of Tasmania.** *Papers and Proc., R. S. Tas., Vol. I,* 1851, p. 87.

Manufacture of Potash from Tasmanian woods. *Papers and Proc., R. S. Tas., Vol. I,* 1851, p. 93.

Operations of *Teredo navalis* **in Colonial timber.** *Papers and Proc. R. S. Tas., Vol. II,* 1854, p. 74.

FIELD (B.)—**Geographical Memoirs of New South Wales, by various hands, &c., together with other papers on the Aboriginals, geology, botany, the timber, the astronomy, and the meteorology of New South Wales and Van Diemen's Land.** *London,* 8*vo.,* 1825, p. 313.

Extract from the report of the Purveyor of the Navy Board on the timber of New South Wales and Van Diemen's Land, by R. Mart. These are brief notes on Tasmanian, and also coastal New South Wales timbers. The work contains other papers, a few of which contain some references to plant uses.

FOWKE (CAPT.)—**Tables of the results of a series of experiments on the strength of British, Colonial, and other woods.** *By Capt Fowke, R.E., London,* 1867.

The Colonial timbers were exhibited at the London Exhibition of 1862, (? also at the Paris Exhibition, 1855), and the experiments were carried out by Capt. Fowke, of the Science and Art Department, South Kensington, London, by which Department they were exhibited at the Paris Exhibition of 1867. I have been unable to obtain access to a record of these tests. Some of the results are reproduced in Mr. Balfour's report, (New Zealand Exhibition, 1865.)

FRENCH (C.)—**Description of some Australian Wood-boring Capricorn Beetles.** *Second Ann. Report of the Secretary for Agric., Melb.,* 1874.

An illustrated paper with particular reference to their devastations in indigenous timbers.

GAMBLE (J. S.)—**A Manual of Indian timbers.** *Office of Supt. of Govt. Printing, Calcutta,* 1881.

Contains notes on the timber of Australian trees cultivated in India.

GORDON (G.)—**The Pinetum.** *Henry G. Bohn, London,* 8*vo.*

Contains useful notes in regard to Australian Coniferæ.

GRIFFIN (G. W.)—**New South Wales; her commerce and resources.** 8*vo., Govt. Printer, Sydney,* 1888, p. 22.

Forests and forest culture.

HILL (W.)—**Catalogue of the Timbers of Queensland, exhibited by the Queensland Government in the Queensland Annexe, South Kensington.** *London,* 1874.

A descriptive catalogue embodying useful notes.

HÖHNEL (F. v.)—Under the name of "pinkos-knollen," a very hard, red, woody substance was introduced into the Vienna market, probably from Australia, which was found to be almost as valuable for turning purposes as ivory. They are probably gigantic knots which have fallen out of decaying and mouldering trunks. The author refers them to *Dammara* or *Araucaria*, probably *A. Bidwilli*, (Bunya-Bunya.) *Pharm. Journ.* [3], *XIV*, 974.

HOLMES (G.)—**On the Timber of Victoria.** *Trans. and Proc. Victorian Inst.* 1854 *and* 1855. p. 100.

HOOKER (J. D.)—**On the Huon Pine, and on Microcachrys, a new genus of Coniferæ from Tasmania, together with remarks on the geographical distribution of that order in the Southern hemisphere.** *Tas. Journ.*, 1848, p. 278.

In addition to the pure botany in this paper, it contains a valuable account of the coniferous woods of Tasmania.

HOWITT (A. W.)—[*See* EUCALYPTUS, p. 29.]

HULL (H. M.)—**Tasmania and its wealth in timber.** *Journ. Roy. Col. Inst.*, 1872-3.

The economic value of the forests of Tasmania. *Ib.* 1873-4.

JACKSON (J. R.)—**Notes on apparently useful woods hitherto little known.** *The Technologist, III,* 49.

These notes on various timbers include a number of references to Australian ones.

The genus *Araucaria. The Intellectual Observer, VII,* 417. Abstracted in *The Technologist, VI,* 1.

Includes notes on the culture of, and the food and timber yielded by Australian species.

Boxwood and its substitutes. *Journ. Soc. Arts, XXXIII,* 566, 603.
Consists of notes on engraving timbers, including reports on the following tested from Australia :—

Pittosporum undulatum.
„ *bicolor.*
Bursaria spinosa.
Elæodendron australe.
Monotoca elliptica.

[*See* EUCALYPTUS, p. 29.]

KEW BULLETIN.—1890, *CLXIV*, p. 188. **Jarrah timber.**
Chiefly refers to its use for paving in London.
1889, *XCIII*, p. 112. **Tasmanian woods.**
Report on certain Tasmanian woods, furnished by the Agent-General for Tasmania, for trial by Mr. A. Ransome, Stanley Works, Chelsea. The timbers were labelled as follows :—

1. Stringybark (*Eucalyptus obliqua.*)
2. Stringy gum.
3. Red Myrtle (*Fagus Cunninghamii.*)
4. White „ „ „
5. Pine (*Dacryduim Franklinii ?*)
6. Huon Pine „ „
7. Blackwood (*Acacia melanoxylon.*)
8. Lightwood „ „
9. Pencil cedar „ „
10. Sassafras (*Atherosperma moschata.*)

KEW REPORTS.—[*See* GENERAL, p. 4.]

KING (P. P.)—[*See* GENERAL, p. 4.]

LAMBERT (E.)—**Eucalyptus Culture, Exploitation et Produit, son role en Algérie.** *Paris. Au siége de la Société d'Acclimation*, 1874.
Chiefly treats of *E. globulus* and of the re-afforestation of Algeria with it.

LASLETT (T.)—**Timber and timber trees, native and foreign.** *Macmillan and Co.*, 1885.
"Trees of Australia," p. 187. Includes Tewart, Jarrah, Karri, Ironbark, Blue gum, Stringybark, &c.

LUNT (J.)—**Experiments on the transverse strength of Colonial and other timber** (15*th Sept.*, 1887.) *Fourth Progress Report of Victorian Royal Commission on Vegetable Products*, p. 489.
Transverse strength, &c., in tabular form. Colonial timbers dealt with, Red Gum, Blue Gum, Box, Stringybark, Messmate.

McDONALD (D. E.)—**Report, from the Engineer of the Auckland Harbour Board, upon experiments he has made with Jarrah, to see whether it is really proof against the attacks of the Teredo (Mollusc), which inhabit Auckland waters.** *Govt. Printer, Wellington, New Zealand*, 1876.
The experiments recorded show Jarrah in an unfavourable light as compared with Tolara.

MAIDEN (J. H.)—**Notes on some New South Wales timbers.** *Proc. Eng. Assoc. N.S.W., IV*, 106.
A paper read by invitation before the Engineering Association of New South Wales.

Some Ornamental New South Wales timbers. *Build. and Eng. Journ., Aug.*, 1891.
A paper read by invitation before the Sydney Architectural Association.
Embodies a new and suggestive classification.

Some of the pale hardwoods of New South Wales.
A paper read by invitation before the Sydney Architectual Association.
S.A.A. Notes, Sept., 1892. *Build and Eng. Journ., Sept.*, 1892.
1. Hard interlocked timbers. 2. Fissile timbers. 3. Inferior timbers.

[*See* GENERAL, p. 5.]

MILLIGAN (Dr.)—**The timber of Tasmania—Blue Gum.** *The Technologist, I*, 97.

A full account of the uses and durability of the timber of *Eucalyptus globulus.*

MITCHELL (J.)—**On the strength, durability, and value of the timber of the blue gum of Tasmania, and of some other Eucalypts, for shipbuilding, with tables.** *Papers and Proc., R. S. Van Diemen's Land, Vol. II*, pt. *I*, 1852.

Deals with *E. globulus*, *E. viminalis*, and *E. obliqua.* The apparatus used in these tests is described.

On the strength, durability, and value of the timber of the blue gum of Tasmania, and of some other Eucalypti, for shipbuilding, &c. *Papers and Proc., R. S. Tas., Vol. II*, 1854, p. 121.

MUELLER (F.)—**Description of the Australian Kauri Pine.** *Journ. Vict. Pharm. Soc., II*, 173, (1860.)

MUELLER (F. v.)—**The trees of Australia, phytologically named and arranged, with indications of their territorial distribution.**

Intercolonial Exhibition, Melbourne, Essays, 1866–67, No. 5.

A supplement of the foregoing, naming twenty-two trees chiefly from Queensland. *Journ. Bot., VI*, 215.

Forest Culture in its relation to industrial pursuits.

A lecture delivered at the Technological Museum, Melbourne, 22nd June, 1871, and published at page 45 of the Trustees' Reports.

Report on the Forest Resources of Western Australia. 4*to*, *L. Reeve & Co.*, 1879.

Contains notes on the useful products of native plants (principally Eucalypts), of the Western Colony.

[*See* FOODS, p. 15.]

MUELLER (F. v.) and NEWBERY (C.)—**A descriptive Catalogue of the specimens in the Industrial and Technological Museum, Melbourne, illustrating the economic woods of Victoria.** *Melbourne: Mason, Firth, and McCutcheon*, 1885.

One hundred and eighty-one timbers described. Four tabulated statements of tests of Australasian timbers are added.

MUELLER (F. v.) and WALTER (C.)—**Names of different woods and other articles used by the Yarra (Melbourne) natives for weapons, &c.** *Journ. Bot., V*, 139.

NEWBERY (C.)—[*See* "MUELLER (F. v.)"]

NILSON (A.)—**The timber trees of New South Wales.** 8*vo., Govt. Printer, Sydney*, 1884.

Brief notes attached to descriptions taken from the *Flora Australiensis.*

Oxley (J.)—**Journal of two Expeditions into the interior of New South Wales, undertaken by order of the British Government in the years 1817–18.** *Quarto, London,* 1820.

The Admiralty instructions to Capt. P. P. King *re* timber, were recopied almost *litteratim* and given by Governor Macquarie to Oxley, p. 360.

Perrin (G. S.)—**Report on Macquarie Harbour Pine, and other timber trees of the West Coast.**

Report to the Minister of Lands and Works, *Hobart,* 8*th July,* 1886.

Pettigrew (W.)—**The habitat and peculiarities of some of our timbers.** *Proc. Queensland Philos. Soc.,* 1877.

Valuable notes on Queensland timbers, from the pen of a Brisbane timber merchant.

Ransome (A. & Co.)—**Report on the practical tests of Colonial timbers in connection with the Colonial and Indian Exhibition, at Stanley Works, King's Road, Chelsea.** 8*vo.* pp. 16, *London,* 1887.

Deals with some woods of New South Wales, Victoria, South Australia, Queensland, and Western Australia. A reprint of a paper contained in the Reports on the Colonial and Indian Exhibition. See p. 10. Read also before the Society of Arts, London, the paper being entitled "Some of our Colonial Timbers." *Journ. Soc. Arts, XXXV,* 288.

Raveret-Wattel—[*See* EUCALYPTUS, p. 31.]

Redford (A.)—[*See* GENERAL, p. 6.]

Robertson (A. M.)—**Note on the Vegetation of Western Australia.** Forestry and Forest products; prize essays of the Edinburgh Forestry Exhibition, 1884, p. 233.

Notes on Jarrah, Karri, &c.

Simmonds (P. L.)—**The present and future sources of the timber supplies of Great Britain.** *Journ. Soc. Arts,* 19 *Dec.,* 1884.

Contains notes on Australian timbers.

Smyth (R. B.)—[*See* GENERAL, p. 6.]

Tenison-Woods (J. E.)—**Tasmanian Forests, their Botany and Economical Value.** *Proc. R. S., N.S.W., XII,* (1878), 17.

Victorian Railways. **Official Report of the Carriage Timber Board.** *Melbourne: Walker, May, & Co.,* 1884.

On the best colonial timbers for the construction of railway carriages. Statements of timber tests are appended.

WARD (E. W.)—**Report of results obtained from experiments on the elasticity and strength of timber in New South Wales, procured through the Chief Commissioner of Railways, and tested at the Sydney Branch of the Royal Mint, in the month of March, 1858.** Read before the *Philos. Soc., N.S.W.* (now *Roy. Soc.*) 12*th May,* 1858, and printed in *The Sydney Magazine of Science and Art* for *May,* 1858, *Vol. I,* p. 258.

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WILHELMI (C.)—[*See* GENERAL, p. 7.]

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Replete with valuable notes.

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XVII.—FIBRES.

(See also "Exhibition Literature," Melbourne, 1861, p. 8 ; London, 1862, p. 8 ; Melbourne, 1866, p. 9; Colonial and Indian, 1886, p. 10; Adelaide, 1887, p. 10; Melbourne. 1888, p. 11).

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At Appendix B, p. 707, are plates and descriptions of New Zealand Flax (*Phormium tenax*), Settlers' Twine (*Gymnostachys anceps*), and Spear-lily (*Doryanthes excelsa*).

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Lepidosperma gladiata and *Lavatera plebeja.*

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Manufacture of paper in Tasmania. *Technologist, I,* 61.

Appeal for the starting of a paper mill in Tasmania to utilise indigenous fibre material.

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